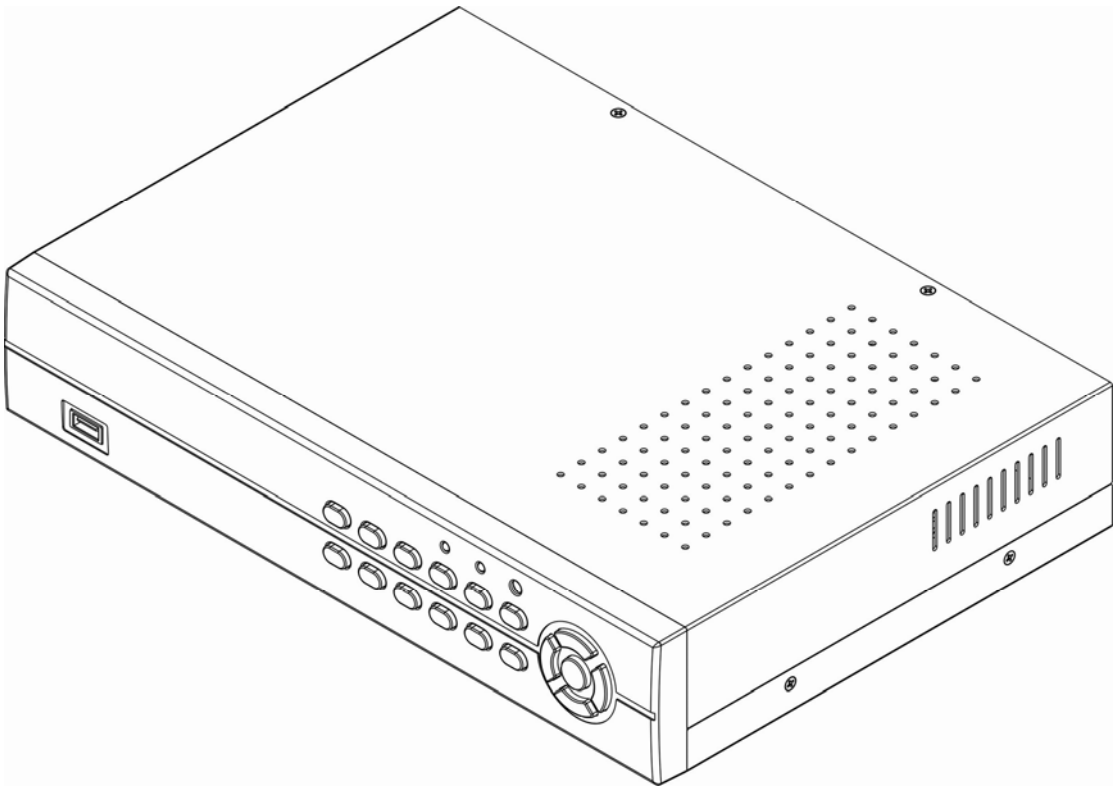
4CH
H.264 STANDALONE DVR SYSTEM



USER MANUAL

2011 SEP V1.0

optional

WARNING

- Do not expose the DVR under the sunlight, heat or wet environment while installation. As it could decrease the performance of DVR and damage the machine.
- Do not touch the power plug or case with wet hands as this could result electric shock.
- Do not forcedly bend or put heavy object on power cable as this could result in injury to personal or equipment.
- Do not operate with damaged power cord or loose electrical outlet as this could result in electric shock or accident.
- Please use individual power instead of share electrical outlets with other electrical equipment as this could result in damage or accident.
- Do not attempt to service this DVR by yourself as it may expose you to dangerous voltage or other hazards. Please refer all service to the qualified servicing distributor.
- Do not open the covers or insert any object into DVR.

CAUTION

- Do not place the machine on an uneven surface or it would decrease the DVR efficiency or malfunction.
- Avoid any shock or bumping of the DVR while recording. Improper handling could damage the system.

CAUTION

Make sure the voltage selector switch is set to appropriate setting before plug in!

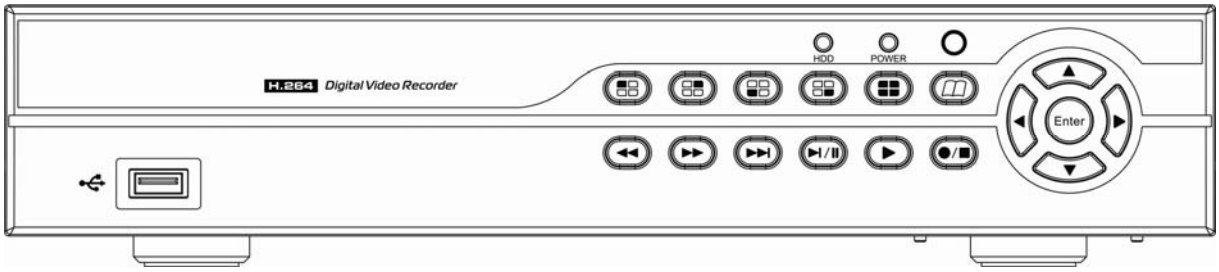
CONTENTS

1. Specification 1
2. Front Panel 2
3. Installation 3
4. DVR Installation 3
5. System Operation 4
6. Display Setup 6
7. Search 8
8. Main Menu 10
    - 8.1 Camera Setup 10
    - 8.2 Record Setup 12
    - 8.3 Alarm Setup 15
    - 8.4 Motion Detection 15
    - 8.5 Network Setup 16
    - 8.6 Log Search 19
    - 8.7 Backup 20
    - 8.8 System 21
        - 8.8.1 Time Setting 21
        - 8.8.2 HDD Setup 21
        - 8.8.3 Display Setting 23
        - 8.8.4 System Information 24
        - 8.8.5 User Password 24
        - 8.8.6 System Language 25
        - 8.8.7 Audio Setting 25
        - 8.8.8 System Maintenance 25
9. Cell Phone Monitoring Operation 27
10. H264 Player Operation 43
11. Web Operation 45
12. Default Setting 53
13. HDD Support List 54
14. USB Flash Memory Stick Support List 55
15. Operation System For Mobile Phone Application 56
16. 3G Data Rate 56

1. Specification

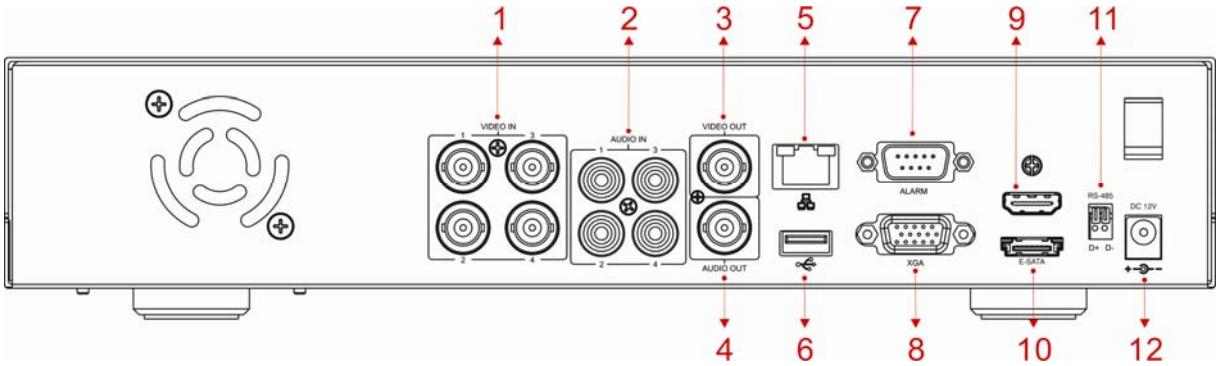
Video System		NTSC	PAL
Operating System		Embedded Linux	
VGA Output		D-SUB 15P VGA	
Video Input		4 x (1Vp-p 75R) BNC	
Audio Input		4 x RCA（CH1~CH4）	
Video Output		1 x (Monitor Out) BNC	
Audio Output		1 x RCA	
OSD Interface		GUI interface / Multi-Language (English / Traditional Chinese / Others)	
Display Frame		240 fields/s (4x60 fields/s)	200 fields/s (4x50 fields/s)
Recording Frame		30fps (CIF/HD1/D1) / 20fps(1.5D1)	25fps (CIF/HD1/D1) / 16fps(1.5D1)
Playback Frame		30fps (CIF/HD1/D1) / 20fps(1.5D1)	25fps (CIF/HD1/D1) / 16fps(1.5D1)
Display Mode		Single / Quad / Auto Switch	
Pentaplex Mode		Recording / Playback / Network / Mobile Phone Surveillance	
Resolution	Display	720x480	720x576
	Recording	360x240 @CIF	360x288 @CIF
		720x240 @HD1	720x288 @HD1
		720x480 @D1	720x576 @D1
		960x480 @1.5D1	960x576 @1.5D1
Compression Format		H.264	
HDD Management		SATA HDD x 1 (No HDD Included)	
Backup Device		Host USB 2.0	
Searching	Mode	Time/Date, Event	
	Full Screen	Yes	
Alarm Input / Output		4 x Input / 1 x Output	
Key / LED		17 Keys (Max.) / 2 LEDs	
Motion Detection(MD)		Yes	
Video Loss Detection		Yes	
Switching		Yes	
Buzzer		Yes	
Brightness Setting		Yes	
Contrast		Yes	
XGA Output		Adjustable, 1440p x 900p (max.)	
Digital Output		1080p30 / 720p60	
Mouse		Yes (USB 2.0)	
P/T/Z Control		Pelco-D / Pelco-P (RS-485)	
Watchdog		Auto Power Recovery	
Network		H.264 (STATIC，DHCP，PPPoE)	
Mobile Phone		Windows Mobile / Symbian / iPhone / Android / Blackberry	
Power supply		DC 12V / 3A (AC100V~240V 50/60HZ)	
Dimension		315mm x 222mm x 68mm (W x D x H)	
Operating Temperature		0℃~ 46℃	

2. Front Panel



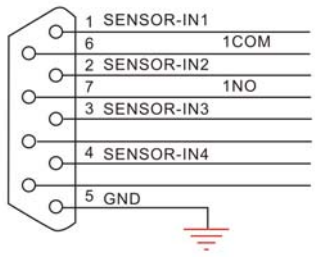
POWER	Power Indicator	The LED lights on when power on.
HDD	HDD Indicator	The LED lights on when the HDD is written.
	Channel 1	Under the live viewing mode / playback mode channel 1 display.
	Channel 2	Under the live viewing mode / playback mode channel 2 display.
	Channel 3	Under the live viewing mode / playback mode channel 3 display.
	Channel 4	Under the live viewing mode / playback mode channel 4 display.
	Quad	Under the live viewing mode / playback mode Quad display.
	Menu	Under the live viewing mode, press MENU to enter the main menu.
		Under the menu mode, press MENU to go to the upper menu.
◄◄	Fast Rewind	Playback: x2 / x4 / x8 / x16 / x32 Multiple Speed.
►►	Fast Forward	Playback: x2 / x4 / x8 / x16 / x32 Multiple Speed.
►►I	Slow Forward	Playback: 1/2 / 1/4 / 1/8 Multiple Speed.
►I/II	Step	Under the playback mode, press Step button to enter Play Frame by Frame mode.
	Pause	Under the playback mode, press the button to pause the playback.
►	Play	Under the live viewing mode, press the Play button to enter the playback mode.
●/■	Manual Record	Press this button to start recording in live mode.
	Stop	Under the playback mode, press the button to stop the operation or go to upper menu.
▲	Up	To move up of the selection setting in menu.
▼	Down	To move down of the selection setting in menu.
◄	Left	To move left of the selection setting in menu.
►	Right	To move right of the selection setting in menu.
Enter	Enter	Press the Enter button to confirm the setup or go into sub-menu.
	USB 2.0 Port	USB Backup or Firmware Update.

3. Installation



1	Video In	1-4 CH Video Input (BNC)
2	Audio In	1-4 CH Audio Input
3	Video Out	1CH Video Output (BNC)
4	Audio Out	1CH Audio Output (RCA)
5	LAN	RJ-45 Network Connection
6	USB Mouse Port	2.0 USB Mouse
7	Alarm I/O	Alarm In/Out
8	XGA	PC Monitor Output
9	Digital Output	1080p/ 720p resolution Output
10	E-SATA	Support external storage system and the Port Multipliers function
11	RS-485	For Speed Dome Use
12	DC12V	Power Input

■ Alarm I/O



Item
Point 1: CH1 sensor input.
Point 2: CH2 sensor input.
Point 3: CH3 sensor input.
Point 4: CH4 sensor input.
Point 5: ground.
Point 6: the first relay joint port.
Point 7: the first relay normal open.

4. DVR Installation

- Connect the camera video output to the DVR video input port with BNC connectors.
  The camera install coaxial cable is suggested cat 6 or above.
- DVR Network installation
  Please connect DVR to HUB or router by using RJ-45 network cable and

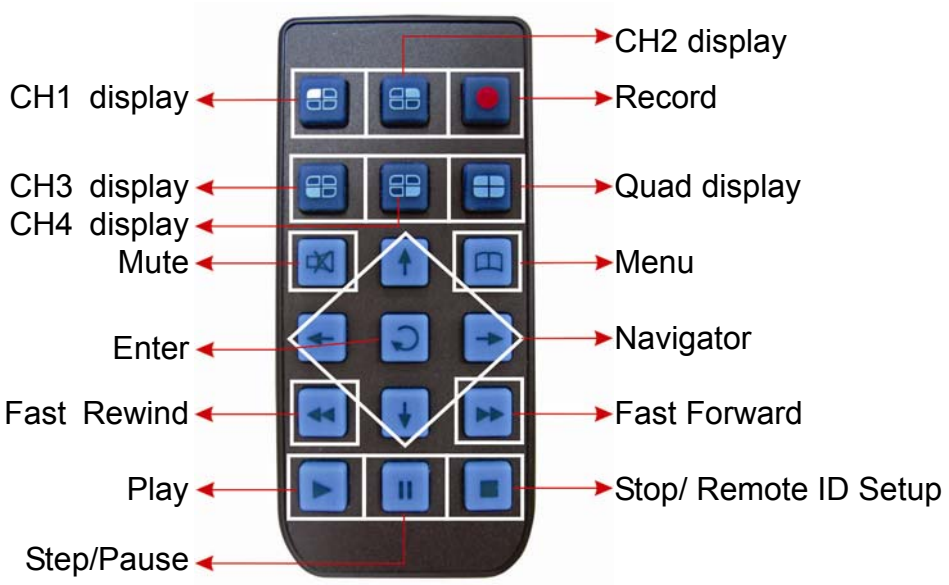
make sure the DVR network indicator LED is on.
(Please refer to Network Setup for further network setting information of using static IP, PPPoE or DHCP.)

- Alarm Installation
  Please refer to Installation for external alarm I/O installation. Please refer to Alarm Setup.
- Speed Dome Installation
  This device can support 3 kinds of communication protocol (Pelco D, Pelco P & MIKAMI)
- Power Installation
  Please use the provided power cable and adaptor to connect the DVR (AC100V~AC240V). Please refer to Installation for connecting position. The DVR system will enter into live viewing mode when power is connected. Please refer to Display Setup - Live Viewing Mode for more information.

5. System Operation

There are 3 kinds of DVR control method: front panel, remote control and USB mouse.

- USB Mouse Operation
  1. Quick Menu: Right click the mouse button under the live viewing mode to go for enter into Quick Menu.
  2. Left click the mouse button under the main menu to go to the sub-select menu.
  3. Left click the mouse button under the select menu to go to the sub-menu.
  4. Use the mouse to change the setting.
  5. Please refer to Display Setup - PTZ Setup.
- Remote Control Operation
  Remote Control and front panel operation are the same; please refer to Front Panel and the reference table of the button as below.



■ Virtual Keyboard Operation

The text input of the virtual keyboard is as below:

Menu Operation	Front Panel & Remote Control Operation	Mouse Operation
Select character from virtual keyboard	[Up/Down/Left/Right]	[Move Cursor]
Keyin the select character	[Enter]	[Left Click]
Exit the virtual keyboard	[MENU]	[Left Click]out of selection area

Key Description of Virtual Keyboard	
←	Delete the previous character
123	Switch to text input
⏎	Enter key. Save and exit the virtual keyboard
Other Keys	Character Keyin

■ Main Menu Operation

Main menu

Setup Operation	Front Panel & Remote Control	USB Mouse
Select	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Menu	[Enter]	[Left Click]

■ Setup Operation

Setup

Setup Operation	Front Panel & Remote Control	USB Mouse
Select	[Up/Down/Left/Right]	[Moving Cursor]
Confirm Select Setting	[Enter]	[Left Click]
Change the Select Setting	[Left/Right]	[Left Click]

6. Display Setup

There are 3 kinds of screen display mode: Live, Auto Switching and PTZ. DVR.

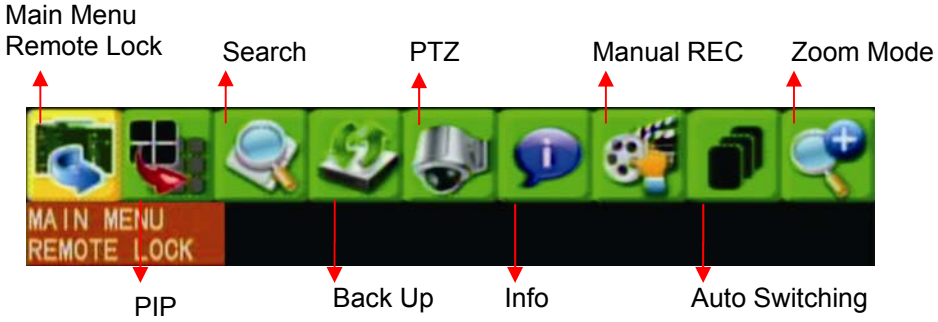
- Live Viewing Mode

  The DVR will go to the live viewing mode after boot up. There are 5 different status icon:

●: Record
M: Motion Triggered
L: Video Loss
A: Alarm Triggered
: Sound on/off

Setup Operation	Front Panel&Remote Control	USB Mouse
Channel 1~4 Single Channel Display	[CH1~4]	Select one of channel [Double click left button]
4 Channel Split Display	[4 CH Split]	Under single channel [Double click left button]
Quick Menu	[MENU]	[Right]
Playback Mode	[Play]	[Right] QuickMenu
Start/Stop the Manual Record	[Record]	[Right] QuickMenu
Start/Stop the Auto Switching	Front Panel [Auto Switch] Remote Control [Auto Switch]	[Right] QuickMenu
Start/Stop Mute	Remote Control [Mute]	[Left] Left Click

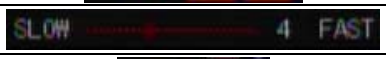
- Quick Menu



Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[Left/Right]	[Moving Cursor]
Enter the Select Item	[Up/Down]	[Moving Cursor]
Confirm the Select Item	[Enter]	[Left Click]
Exit	[MENU]	[Left Click] out of selection area

- PTZ

  Please set the speed dome properly before control PTZ. Please refer to PTZ Setup.

Setup Operation	Front Panel & Remote Control	USB Mouse
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Item	[Enter]	[Left Click]
Zoom +,-		
Focus, +-		
Iris, +-		
Adjust Movement Speed		
PTZ Up / Down / Left / Right		
Start/Stop Auto Tracking		
Exit	[Right click] or [Left click]	

- Playback Operation

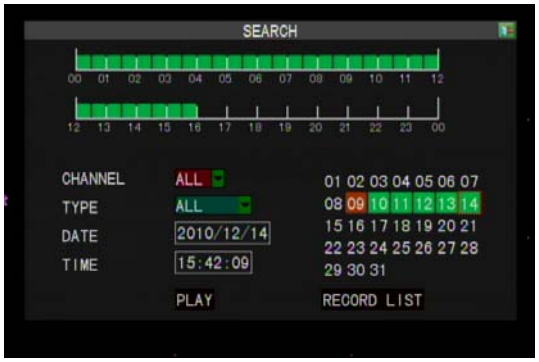
Setup Operation	Front Panel & Remote Control	USB Mouse
Fast Rewind	[Fast Rewind]	

Fast Forward	[Fast Forward]	
Step Forward	[StepForward]	
Step/Pause	[Step/Pause]	
Play 1x	[Play]	
Stop	[Stop]	
Digital Zoon	None	Drag by Left Click
Derived Image	None	[Left click]
1~4 Single Channel Display	[1~4 Channel]	Select Channel [Double left click]
4 split Display	[4 split]	Under single channel [Double left click]

- Auto Switching
  1. Auto switch starts from order CH1~CH4, 4 split channel.
  2. Press the button again to stop the function.

7. Search

In Live mode, use Play button in the front panel/remote controller or right clicking the mouse to switch to the Search function.



Setup Operation	Front Panel & Remote Controller	USB Mouse
Search	[Enter]	[Left Click]
Select Channel	[Up/Down]	[Moving Cursor]
Select Dates	[Up/Down/Left/Right]	[Moving Cursor]
Playback	[Enter]	[Left Click]
Return to Upper Menu	[MENU]	[Right click] or [Left click]

- No data: no color, data of alarm trigger: red color, normal record data: green color.
- Select the first half of hour frame under the date, the playback will start from 00 mins: 00 sec. Select the second half of hour frame under the date, the playback will start from 30mins:00sec. If there is no data on the date, please try to search from record list.

- Select any of 4 channels to playback.

- Record List

Setup Operation	Front Panel & Remote Controller	USB Mouse
Enter Select Item	[Enter]	[Left Click]
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Return to Upper Menu	[MENU]	[Right click] or [Left click]
First Page		
Previous Page		
Next Page		
Last Page		
Mark all the events in this page		
BackUp		

- ◆ List all of recording data and click on one of record data to playback.
- ◆ Backup
  Please click “BACKUP” to backup the selecting file to USB memory stick.

8. Main Menu

Setup Operation	Front Panel & Remote Controller	USB Mouse
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Item	[Enter]	[Left Click]
Exit Main Menu	[MENU]	[Right click] or [Left click]

8.1 Camera Setup

- Channel
  Select one channel to set. Use CopyButton to copy present settings to other channels.
- Camera Title
  Set the title of camera. Key in by using virtual keyboard.
- Title Position
  Set the title position. Set: Top Left, Top Right, Bottom Left, Bottom Right and Off.
- Display
  Display the channel, set: On/Off
- Camera Color Setup

- Hue: 0~50
- Brightness: 0~50
- Contrast: 0~50
- Saturation: 0~50

■ PTZ Setting

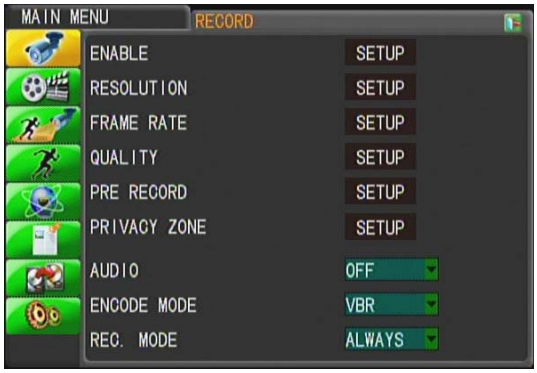
- ◆ Type
  Speed dome model type. Set: PTC-301, PTC-203ST, FUM 626, JG_QG988, FUM 622SD, FUM 628 or off. Please select the correct communication protocol if you enable this setting.
- ◆ Protocol
  Speed dome protocol. Set: PELCO P, PELCO D, MIKAMI or off.
- ◆ Address
  Speed dome address. Set: 0~255
- ◆ Baud Rate
  Speed dome baud rate. Set: 1200, 2400, 4800, 9600, 19200.
- ◆ Tour Time
  Speed dome tour time. Set: 5, 10, 15, 20, 25 sec or off.
- ◆ Tilt Opposite
  Set speed dome image upside down. Set: On/Off
- ◆ Preset

Setup Operation	Front Panel & Remote Controller	USB Mouse
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Enter Select Item	[Enter]	[Left Click]
Zoom +,-		
Focus +,-		
Iris +,-		
Adjust Move Speed		
Set PTZ Up/Down/Left/Right		
Start/Stop Auto Tracking		

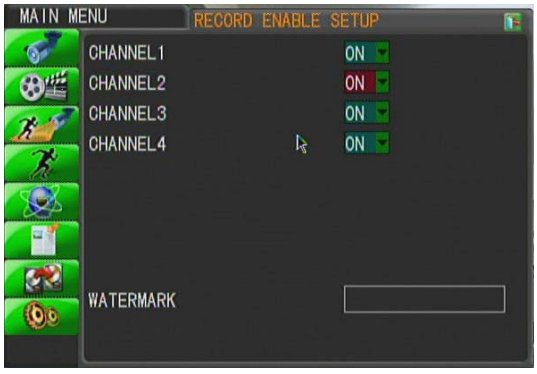
Number Preset Setting	
This function is preset 95 enter the menu	
Save Preset Setting	
Clear Preset Setting	
Clear All Preset Setting	
Return to Upper Menu	[Right click] or [Left click]

- Buzzer Duration
  The buzzer ON duration when video loss.
- Alarm Relay Duration
  The Relay ON duration when video loss.
- Time Display
  Display the time in LIVE mode. Values: ON/OFF.

8.2 Record Setup



- Record Enable Setup
  On/Off the channel.
  Watermark: Insert the words of watermark.



- Resolution Setup
  NTSC Recording Resolution: 720x480 / 720x240 / 360x240 / 960x480.
  PAL Recording Resolution: 720x576 / 720x288 / 360x288 / 960x576.

- Frame Rate Setup
  Setting of Frame Rate: NTSC: 0-30 frames/sec; PAL: 0-25 frames/sec.

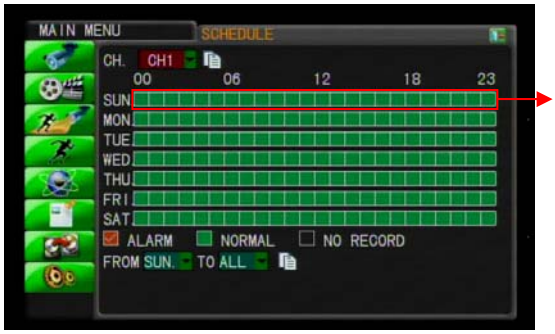
- Quality Setup
  Setting of recording quality: Values 1-5. The bigger value, the better quality.

- Pre Record setting
  Pre Recording time when motion alarm. Values: 0-10 seconds.

■ Privacy Zone
Select channel for privacy mask setup.

◆ Channel: Select channel to setup. Press『COPY』 to copy the same setting to other channels.
◆ Enable: Enable/Disable the privacy mask function.
◆ Color: Select the color of privacy mask area setting in color Gray/Black/White/Red/Green/Bule/Yellow/Purple.
◆ Privacy Zone: Set the privacy mask area.

■ Audio
On/Off the sound effects.
■ Encode Mode
Encoding of channel. Values: VBR or CBR.
■ Record schedule setup
Always and Schedule Record.
◆ Record Schedule



Setup Operation	Front Panel & Remote Controller	USB Mouse
Enter Select Item	[Enter]	[Left Click]
Select Channel	[Up/Down]	[Moving mouse wheel]
Select Time&Date	[Up/Down/Left/Right]	[Click/Drag-draw]
Return to Upper Menu	[MENU]	[Right Click] or [Left Click]

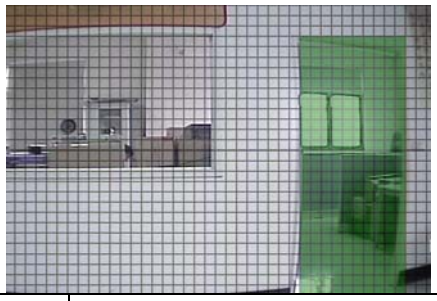
◆ Copy
(1) Select source (2) Select target (3) Press COPY icon to copy.

8.3 Alarm Setup

- Channel
  Select the channel to set. COPY icon can copy the present setting to other channels.
- Mode
  Enable/disable alarm trigger. Set: On/Off.
- Record Duration
  The duration of the recording after triggered: 10, 20… 60 sec.
- Buzzer Duration
  The duration of the buzzer beeping after being triggered: 1, 5, 10, 15, 20, 30 sec.
- Alarm Duration
  Alarm out after alarm triggered: 1, 5, 10, 15, 20, 30 sec.
- Event Popup
  The Duration of single channel display after being triggered: 1, 5, 10, 15, 20 sec or off.

8.4 Motion Detection

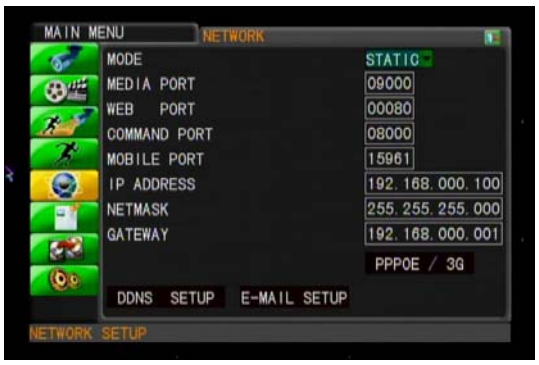
- Channel
  Select the channel to set. COPY icon can copy the present setting to other channels.
- Enable
  Enable/disable motion detection for each camera. Set: On/Off
- Sensitivity
  Sensitivity level of motion detection. Set: 1~10. Higher value equal more sensitive.
- Motion Area Setup
  Setup by each small square.



Setup Operation	Front Panel & Remote Controller	USB Mouse
Area Selection	[Up/Down/Left/Right]	[Moving Cursor]
Set Detection Area: must set on none detection area(Transparent Area)	(1)Move to the area (2)Press Enter to set the area	[Drag by Left Click]
Clear Detection Area: clear the set detection area: must set on detection area(Green Area)	(1)Move to the area (2)Press Enter to set the area	[Drag by Left Click]
Return to Upper Menu	[MENU]	[Right Click]

- Record Duration
  The duration of the recording after triggered: 10, 20… 60 sec. or off.
- Buzzer Duration
  The duration of the buzzer beeping after being triggered: 1, 5, 10, 15, 20, 30 sec.
- Alarm Duration
  Alarm out after alarm triggered: 1, 5, 10, 15, 20, 30 sec.
- Event Popup
  The Duration of single channel display after being triggered: 1, 5, 10, 15, 20 sec or off.

8.5 Network Setup



- Mode
  Set the connection method. Set: Static IP, DHCP, PPPoE.
- Media Port
  Port used for stream media. Default is port 9000.
- WEB Port
  Port used for web access. Default is port 80.
- Command Port
  Port used for settings. Default is port 8000.
- Mobile Port
  Mobile phone port (factory default): 15961.
- IP Address

Assigned IP address.

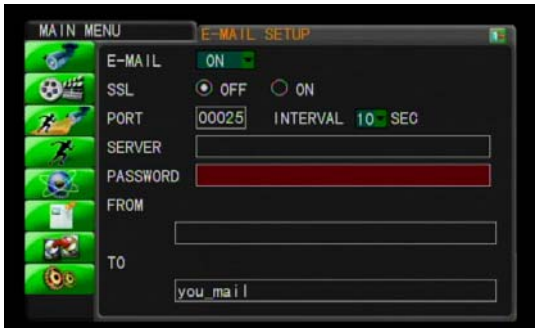
- Netmask
  Assigned net mask
- Gateway
  Assigned gateway
- PPPOE/3G
  - PPPoE: Need account and password for PPPoE.

  - 3G: Need account, password, APN and dial number for 3G.

- DDNS setting

  - DNS1 First Domain Name Server, Default : 168.95.1.1
  - DNS2 Second Domain Name Server, Default :168.95.192.1
  - DDNS
    Enable/disable Dynamic Domain Name server. Values: On, Off.
  - DDNS Server
    DDNS Server, Values: 3322, dyndns, cctvdvr.
    When using DDNSserver, server name and account/password are required.

■ E-Mail Setting



- ◆ E-MAIL
  Forward E-mail after alarm triggered. Enable: On/Off
- ◆ SSL
  Enable the SSL encryption. Recommend to set on if it is using gmail.
- ◆ Port
  SMTP port number key in. For example, gmail port 465.
- ◆ Server
  SMTP server key in. For example, gmail: smtp.gmail.com
- ◆ Password
  Sender E-mail account password
- ◆ From
  Sender E-mail address key in. For example,
  gmail: mail1@gmail.com
- ◆ To
  Receiver E-mail address key in. For example,
  gmail: mail2@gmail.com
- ◆ Interval
  When alarm keeps going, the time span to send E-mail. Values: 10, 30, 60 seconds.

8.6 Log Search

- Log type
  Set conditions for searching: type and time range. Log type can be ALL, Alarm, Operation, Motion, Sensor and Video Loss.
- Start/End time
  Set the search range (Year/Month/Day). Press [SEARCH] to search.

MAIN MENU
LOG LIST
TYPE INFO TIME POINT RECORD
OP WATCHDOG 10-12-14 10:28:32 NO
OP BOOT 10-12-14 10:28:43 NO
ALARM VL 10-12-14 10:28:43 NO
ALARM VL 10-12-14 10:28:43 NO
ALARM VL 10-12-14 10:28:43 NO
ALARM VL 10-12-14 10:28:43 NO
OP NETWORK 10-12-14 10:28:54 NO
OP UPGRADE 10-12-14 10:54:31 NO

Setup Operation	Front Panel & Remote Controller	USB Mouse
Enter Select Item	[Enter]	[Left Click]
Select Item	[Up/Down/Left/Right]	[Moving Cursor]
Return to Upper Menu	[MENU]	[Right click] or [Left click]
First Page		
Previous Page		
Next Page		
Last Page		
Backup to USB disk		

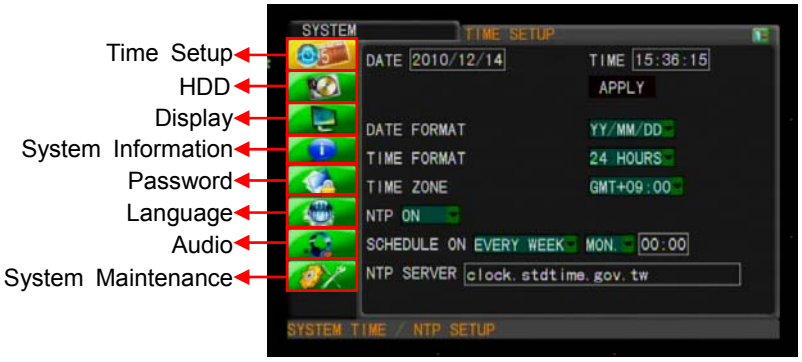
★ When Trigger Recording is marked, click to playback.

8.7 Backup

- Channel
  Backup all channels or single channel 1-4.
- Record Type
  Select all, normal or alarm.
- Start/End time
  Select the backup range of time. Press Search to start searching. The record list will be shown if available and follow [Record list] to backup.

Storage Device Choose: USB Disk, DVD Recorder, USB DVD Recorder.

8.8 System



8.8.1 Time Setting

- Date/Time
  Select by using virtual keyboard.
- Date Format Setup
  Set: YY/MM/DD, MM/DD/YY.
- Time Format Setup
  Set: 24Hours, 12Hours.
- Time Zone Setup
  Time Zone setting of DVR.
- NTP Setting（Network Time Protocol）
  NTP: On or Off
  Schedule Time: Using virtual keyboard
  NTP server: Using virtual keyboard

8.8.2 HDD Setup

- Format

  Format the selected HDD
  Format HDD

- Overwrite
  Enable/Disable Overwrite, Values: On/Off.
  If Overwrite is enabled, the period can be set as 6, 12, 24, 36, 48, 72 hours and 7, 15, 30, 60 days.
- Pack Time
  Set the required packing time frame to allow the system to pack each saving file under continue recording mode. Pack time setting: 5 min, 10min, 15min, 20min, 30min, and 60min.
- HDD Error Buzzer Enable
  When the hard drive does not have enough space or something wrong, set the buzzer on. Values: On/Off.
- HDD Error Alarm Enable
  When the hard drive does not have enough space or something wrong, trigger the alarm. Values: On/Off.
- USB Disk Info

  Format USB Memory Stick

8.8.3 Display Setting

- GUI Display
  GUI display mode can be VIDEO or VGA.
- Video Switching Time
  Set the switching time when switching channels in video mode.
  Values: 1-99 seconds. (0 sec is Off)
- VGA Switching Time
  Set the switching time when switching channels in VGA mode.
  Values: 1-99 seconds. (0 sec is Off)
- Switching Sequence
  Set the switching sequence of channels.

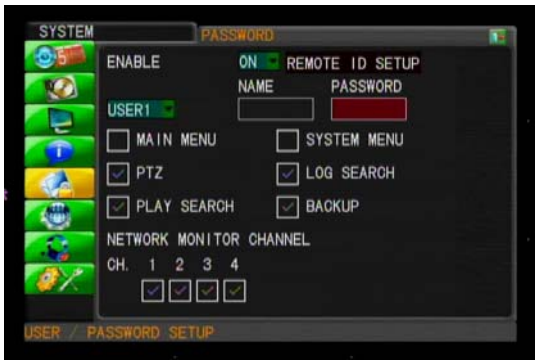
- Video Margin
  Set the display margins of the screen. They are Left, Right, Top and Bottom with range between 0 - 36.

- XGA Resolution
  XGA Resolution: 800x600, 1024x768, 1280x1024, 1440x900.

8.8.4 System Information

Provide the firmware version, MAC address, HDD status….

8.8.5 User Password

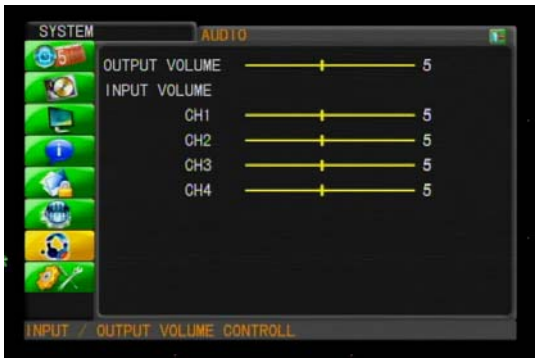


- Password Setup
  Enable/Disable password checking. Values: On/Off (Default)
  Administrator account/password can not be blank. And at least 4 characters for the password.
- Administrator account/password
  Administrator account allows user to access all of functions.
- User account/password
  Access rights can be assigned by setting.
- Remote ID setup
  Can adjust remote control ID to control multiple DVR.

8.8.6 System Language

- Language
  Values: Traditional Chinese and English. Auto rebooting after change.
- Function Tip
  Show function tips below the menu items.
  Value: On/Off (Default).

8.8.7 Audio Setting



- Audio Volume
  Set the volume of audio In/Out. Values: 1-10. (Default: 5)

8.8.8 System Maintenance

- Auto maintenance: Set time for auto rebooting. Value: On/Off.
  Auto rebooting setting

- F/W update
  Please plug the USB memory stick into the USB port on the DVR rear panel after download the new firmware to the USB memory stick.
  Note: the firmware only can be upgraded by using the USB port. Please don't operate the system, remove the USB memory stick or remove the power while it is in upgrade progressing in order to prevent any serious system error. The system will automatic reboot after upgrade.
- Load Setup Default
  Load factory default. Refer to [Default Setting].

- Reboot the DVR
  Reboot the DVR.
- ShutDown
  System will close the recording file. Please remove the power line manually.

9. Cell Phone Monitoring Operation

■ JAVA Script surveillance:

1. The mobile Phone must support JAVA Script
2. To download the JAVA software: open Internet Browser on the mobile phone, and enter the IP address of the DVR and add /viewer.jar at the end. Example: http://xx.xxx.xxx/viewer.jar.

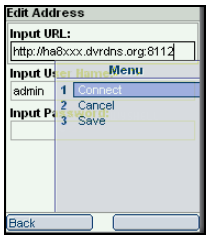
3. Execute the application

4. Click on “Add” on the drop down menu to add an IP address.

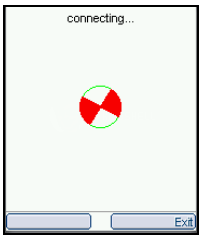
5. Enter the IP address, user name and the password of the DVR and click on “Save”

6. Enter the correct IP address and click on “Open”

7. Click on “Connect” to connect to the DVR.

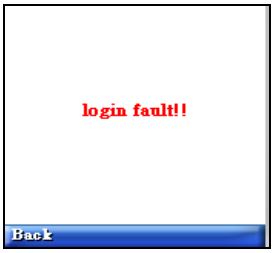


8. Connecting



9. Connected

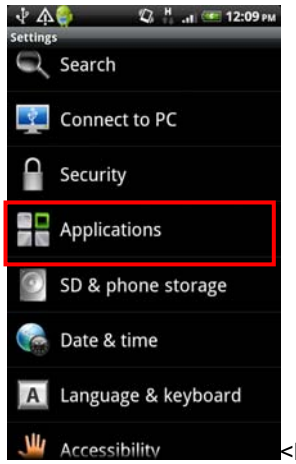
10. If fail to connect, please repeat steps 7 to 9.



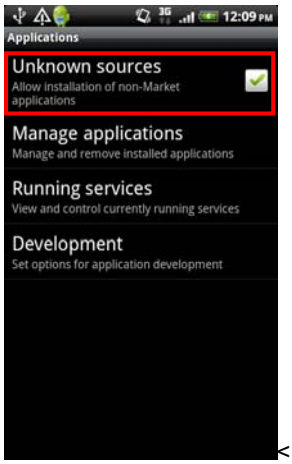
Menu	Capture
	Channel[1~4]

■ Android Software install/setup procedure

Before the installation, please check the ”Allow Non-market application” or “unknown source” checkbox in your mobile phone< PIC 1~2>.



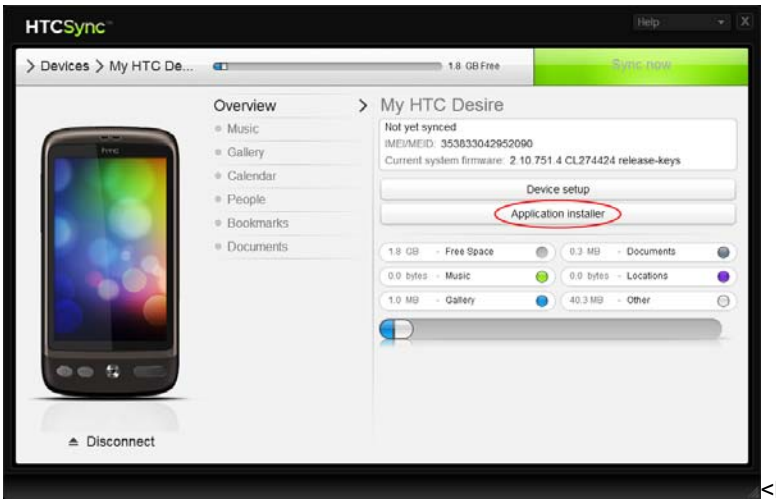
<PIC 1>



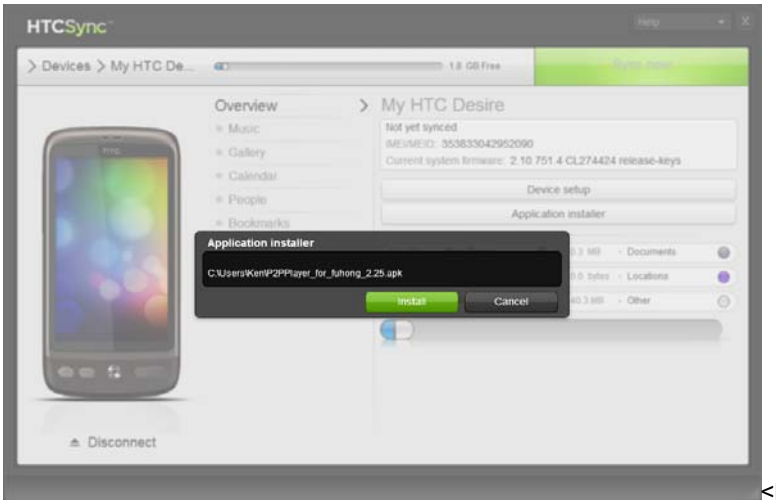
< PIC 2>

First method

1. First, please make sure the PC synchronize software had installed and activated in your Android mobile phone. And connect your android phone to PC via USB.
2. Install “Castillo player” software player to the Android phone through your synchronize software. You may see the example below in the case of HTC.



<PIC 3>



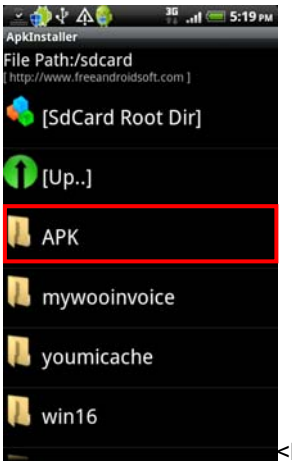
<PIC 4>

Method two

You may copy the APK installation package to your mobile phone or memory card, and then install it through other software.

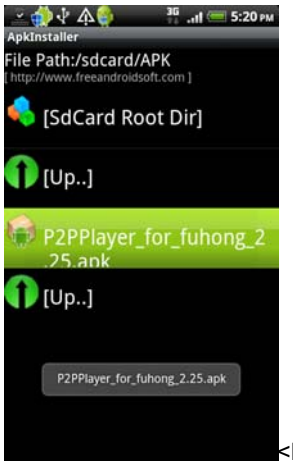
1. Copy the “Castillo player” software package to your mobile phone through USB or directly to SD memory card.
2. Download the free APK installation software from Market, for example APKinstallerc or AppInstaller, here we use AppInstaller for example<PIC 5~6>.

<PIC 5>

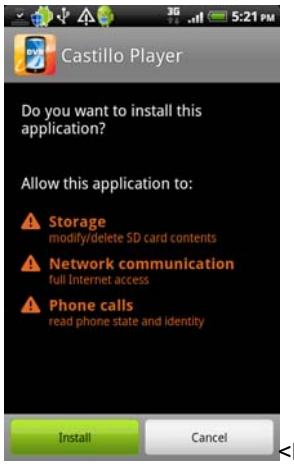


<PIC 6>

3. Run the AppInstaller program, install the APK software package from your SD memory card<PIC 7~8>.



<PIC 7>

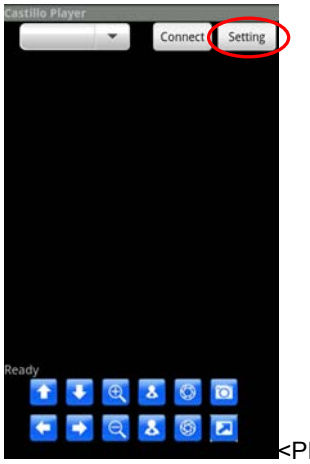


<PIC 8>

4. After the installation, you may find the “Castillo Player” in your program list, click it to run the program<PIC 9>.

<PIC 9>

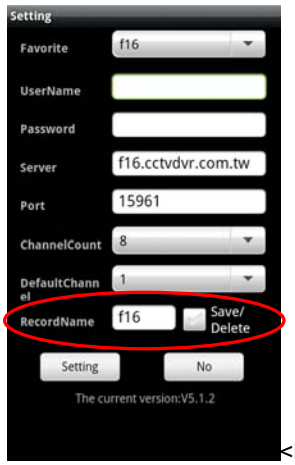
5. Press the “Setup” button to setup the connection setting <PIC 10>. Enter your individual configuration<PIC 11>.



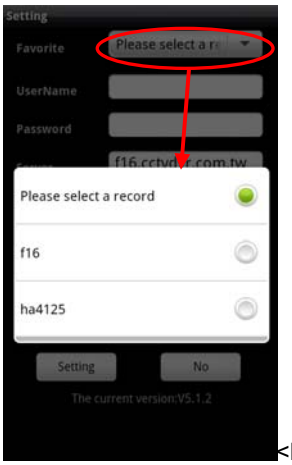
<PIC 10>

<PIC 11>

6. After setting complete, enter a name you prefer then click the “Add to my favorite” checkbox to save the setting<PIC 12~13>.



<PIC 12>



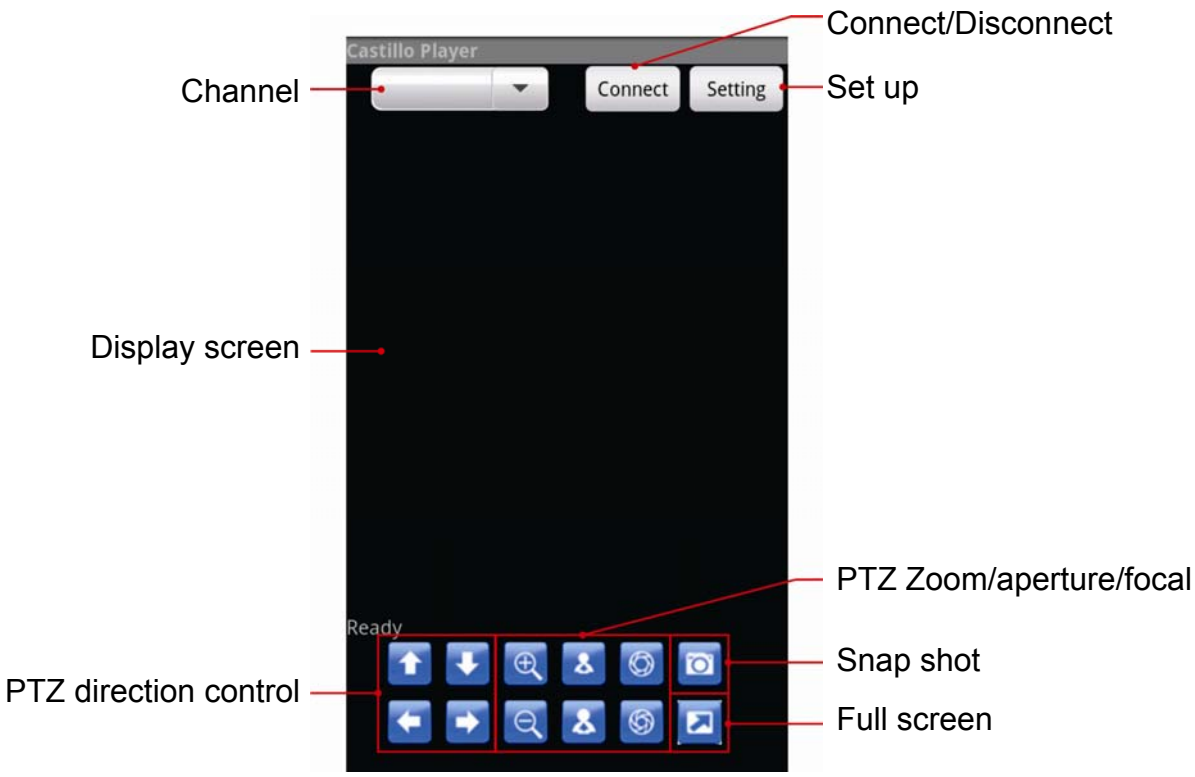
<PIC 13>

7. Press “Connect” button<PIC 14>, it’ll connect to the DVR according to your setup, and you may see the DVR picture after the connection established<PIC 15>.

<PIC 14>

<PIC 15>

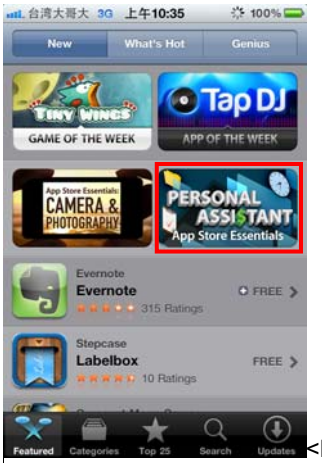
8. <PIC 16>Operate instruction below:



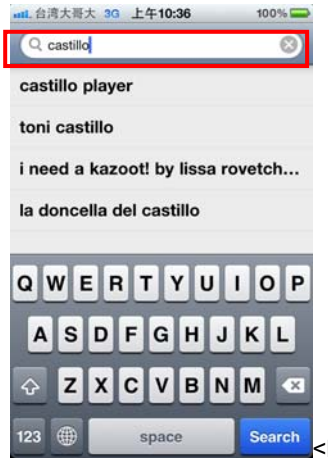
<PIC 16>

■ iPhone software install/setup procedure

1. Download the “Castillo player” in AppStore then install it to your IPhone. <PIC 1~6>

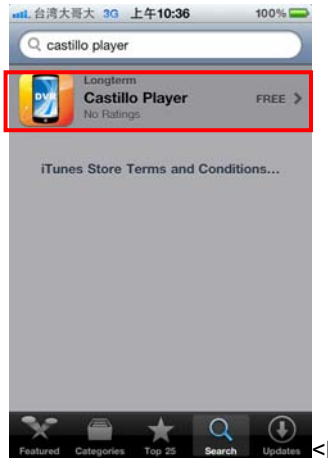


<PIC 1>



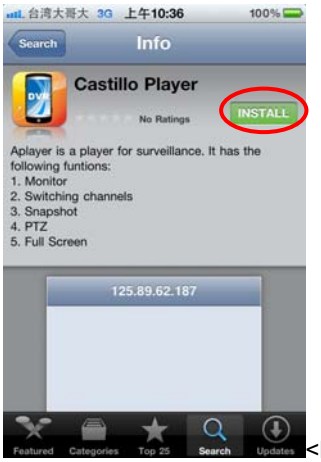
<PIC 2>

<PIC 3>



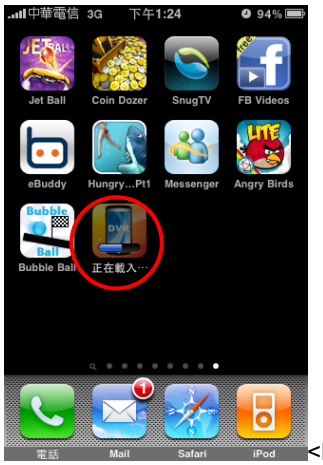
<PIC 4>

<PIC 5>

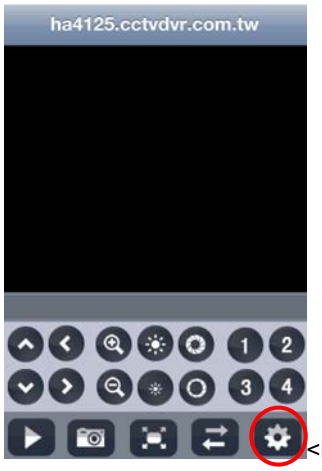


<PIC 6>

2. Run the “Castillo Player” after installation<PIC 7>. Press “setup” button to setup the connection setting<PIC 8>. Enter your individual configuration then press “back” button to go back to the main screen<PIC 9>.



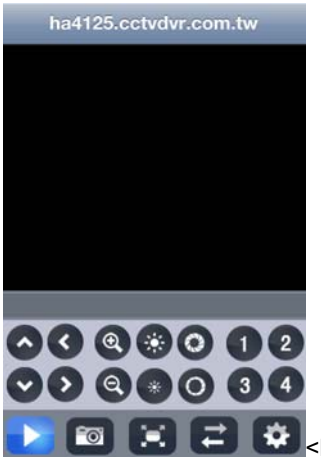
<PIC 7>



<PIC 8>

<PIC 9>

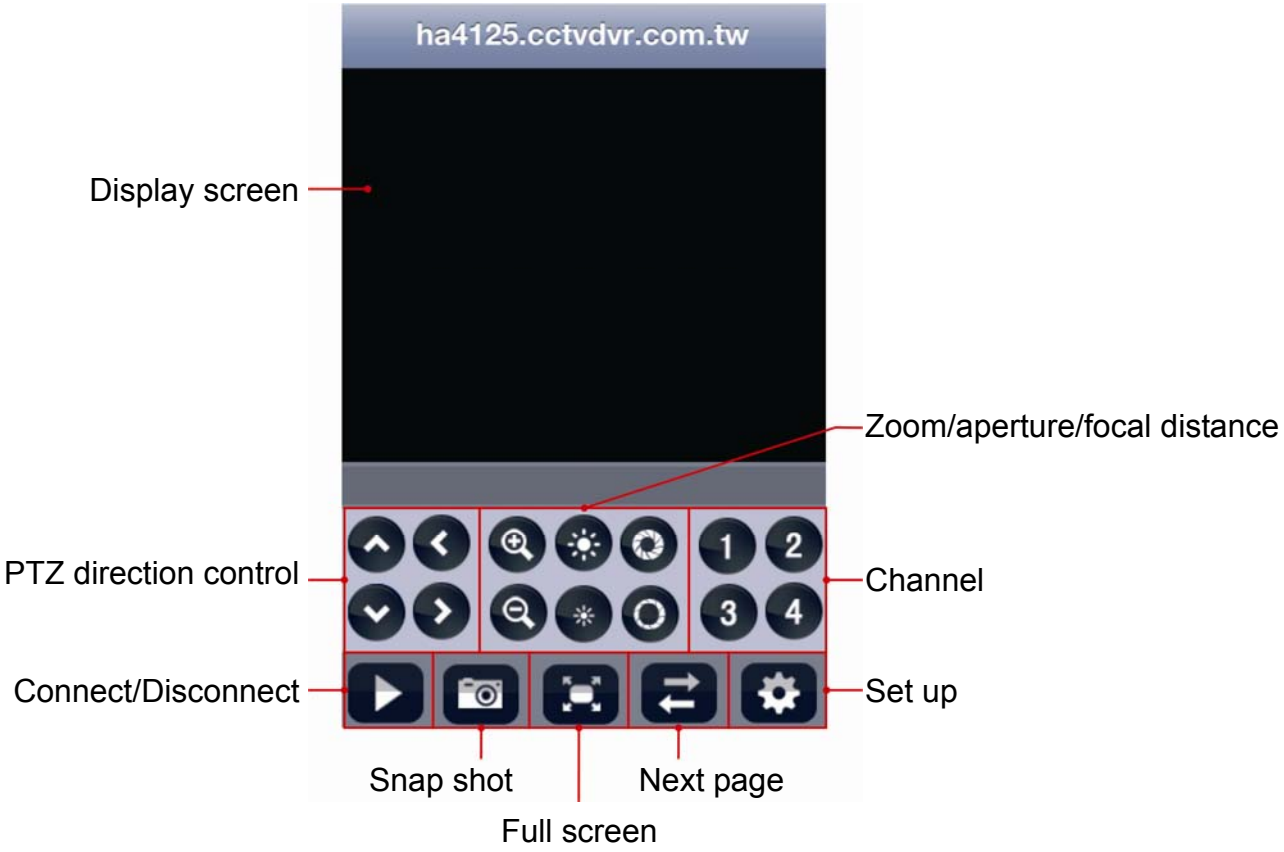
3. Press “Play” button, then you may see the DVR live view picture after the connection established <PIC 10~11>.



<PIC 10>

<PIC 11>

4. <PIC 12> Operate instruction below:

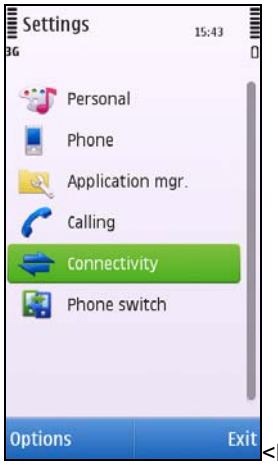


<PIC 12>

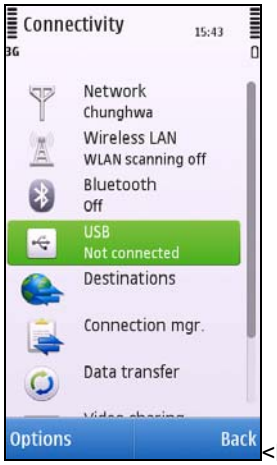
■ Symbian Software install/setup procedure

1. Copy the Symbian player to your mobile phone or memory card; you may see the example below in the case of NOKIA. <PIC 1~5>

<PIC 1>

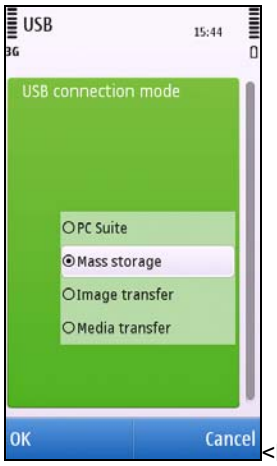


<PIC 2>



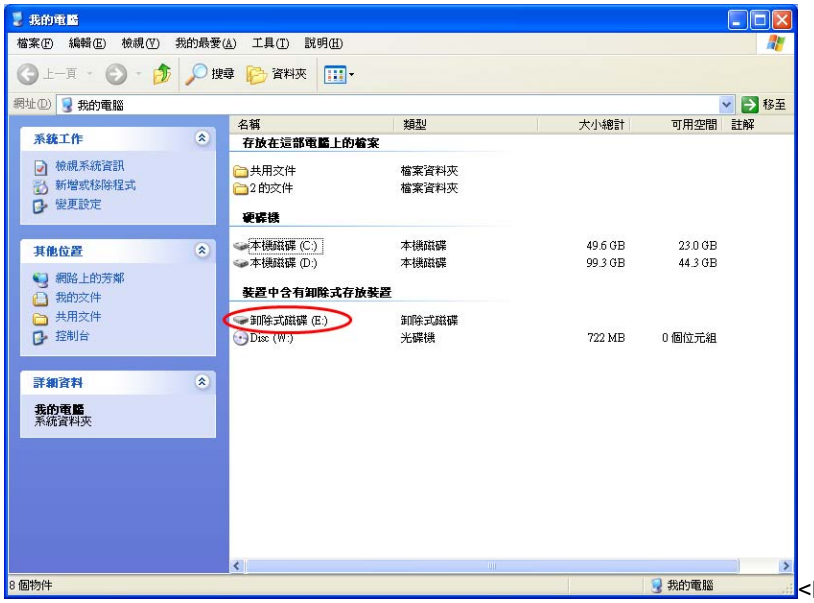
<PIC 3>

<PIC 4>



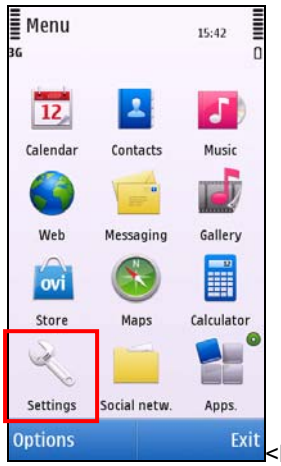
<PIC 5>

2. Connect the mobile phone to PC via USB, copy the live view software to the memory card of your mobile phone <PIC 6>.

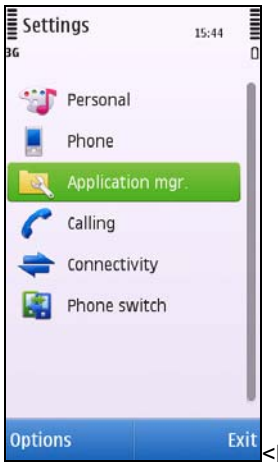


<PIC 6>

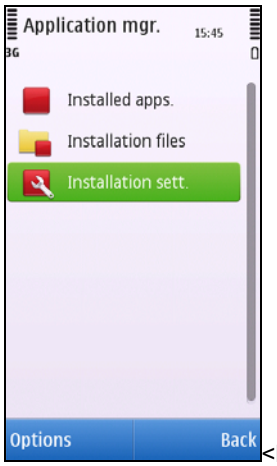
3. Before the installation, please make sure you had cancel the “Only Signed Application”, also cancel the “Connection credentials check” <PIC 7~11>.



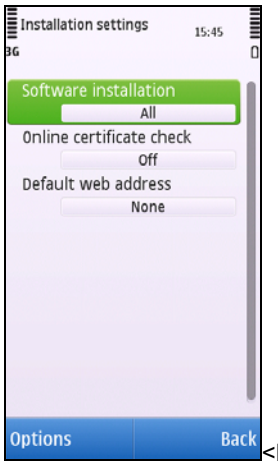
<PIC 7>



<PIC 8>



<PIC 9>



<PIC 10>

<PIC 11>

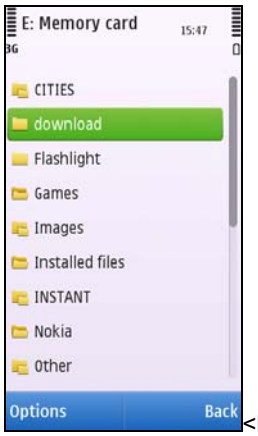
4. Enter the folder which you’d saved the live view software “fuho_20110221.sisx”, double click to install, follow the instruction to proceed <PIC 12~22>.

<PIC 12>

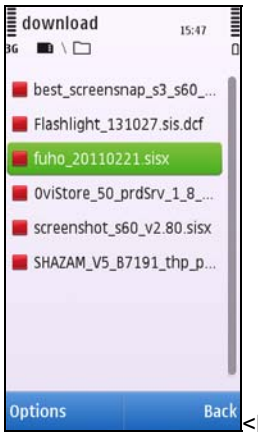
<PIC 13>

<PIC 14>

<PIC 15>

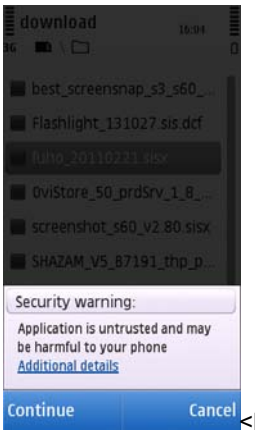


<PIC 16>

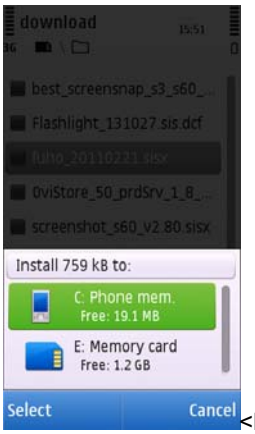


<PIC 17>

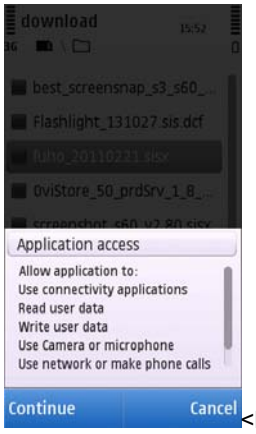
<PIC 18>



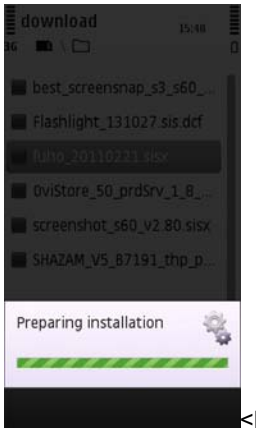
<PIC 19>



<PIC 20>



<PIC 21>



<PIC 22>

5. After the installation, enter the “Installed Application” and you may see the “Castillo Player” inside <PIC 23~25>.

<PIC 23>

<PIC 24>

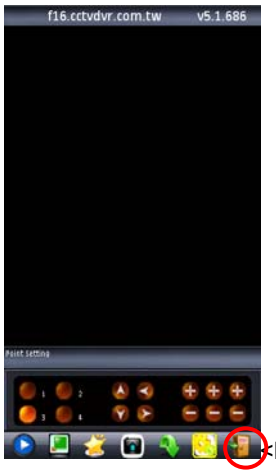
<PIC 25>

6. Click and run the Castillo Player program <PIC 26~27>.

<PIC 26>

<PIC 27>

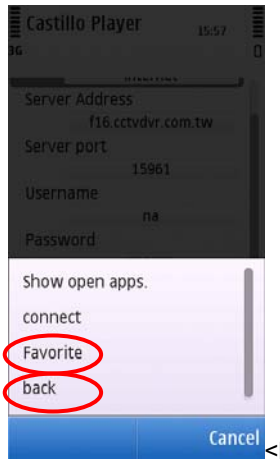
7. Press the “Setup” button to setup the connection setting. After setting complete, click the “Add to my favorite” button to save the setting. Press “Connect” button, it’ll connect to the DVR according to your setup <PIC 28~32>.



<PIC 28>

<PIC 29>

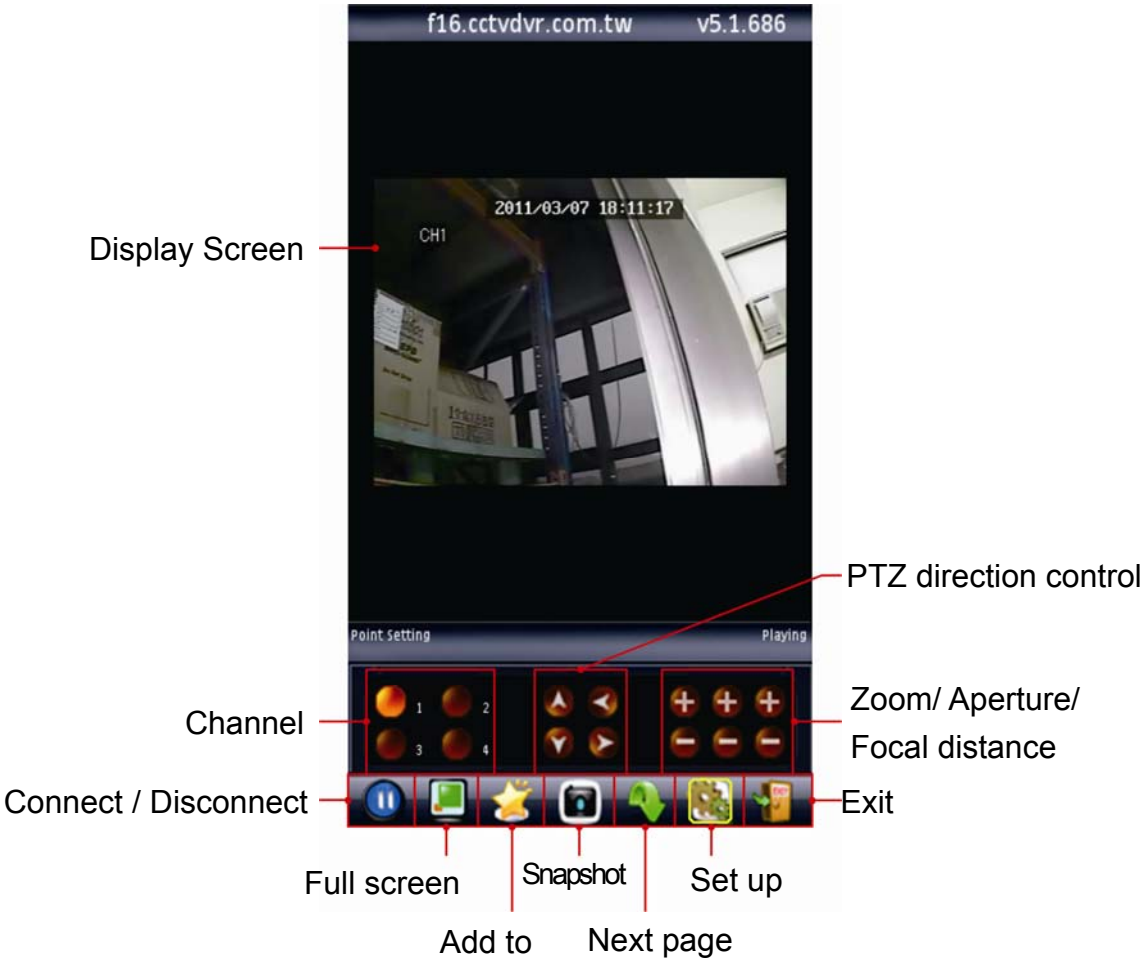
<PIC 30>



<PIC 31>

<PIC 32>

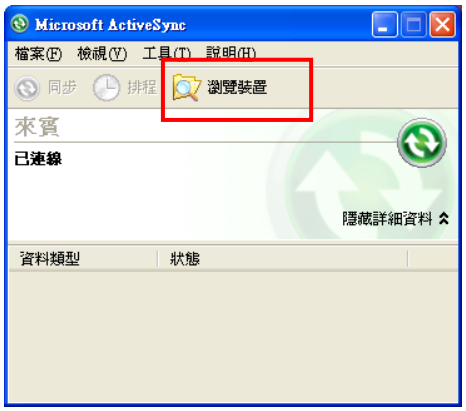
8. <PIC 33>Operate instruction below:



<PIC 33>

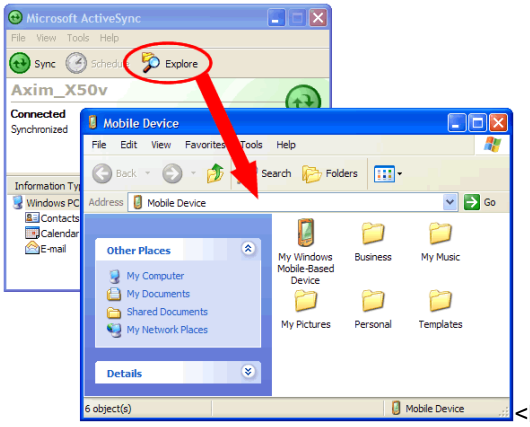
■ Windows Mobile Software install/setup procedure

1. Please install “Microsoft ActiveSync” into the PC before installing CAB software.
2. Execute the Microsoft ActiveSync program in your PC first, and connect the Windows Mobile SmartPhone to PC via USB, then it’ll synchronize the SmartPhone and PC.
3. In ActiveSync program, Click “Browse” button to open the mobile device folder <PIC 1>.



<PIC 1>

4. Copy the .CAB file of Castillo Player to your mobile device folder, or any other folder according to your individual needs <PIC 2>.



<PIC 2>

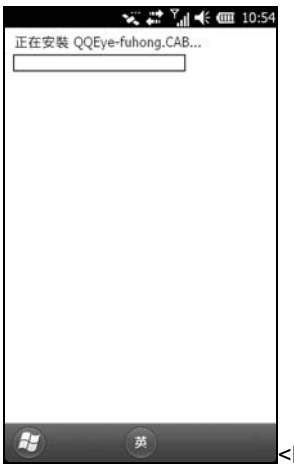
5. Please disconnect the SmartPhone from your PC, and begin the installation below:
6. Execute the Castillo Player CAB install package from the File browser, you may find it in your mobile device folder <PIC 3~5>.

<PIC 3>

<PIC 4>

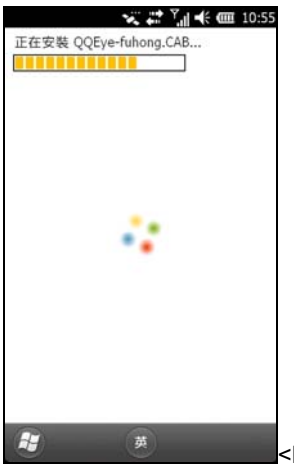
<PIC 5>

7. Double click and it'll begin the installation, follow the instruction for setting up. After the installation, you may find the "Castillo Player" in your program <PIC 6~10>.

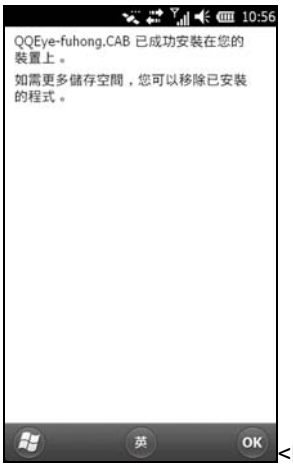


<PIC 6>

<PIC 7>



<PIC 8>



<PIC 9>

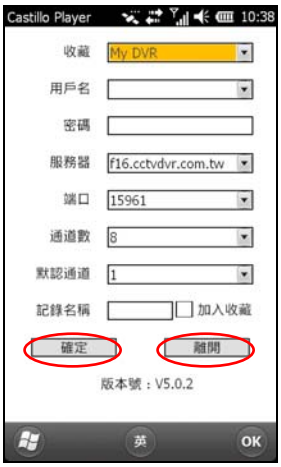
<PIC 10>

8. Run the Castillo Player program, press the "Setup" button to setup the connection setting. After setting complete, enter a name you prefer then click the "Add to my favorite" checkbox to save the setting. Press OK and Leave to go back to the main screen <PIC 11~14>.

<PIC 11>

<PIC 12>

<PIC 13>



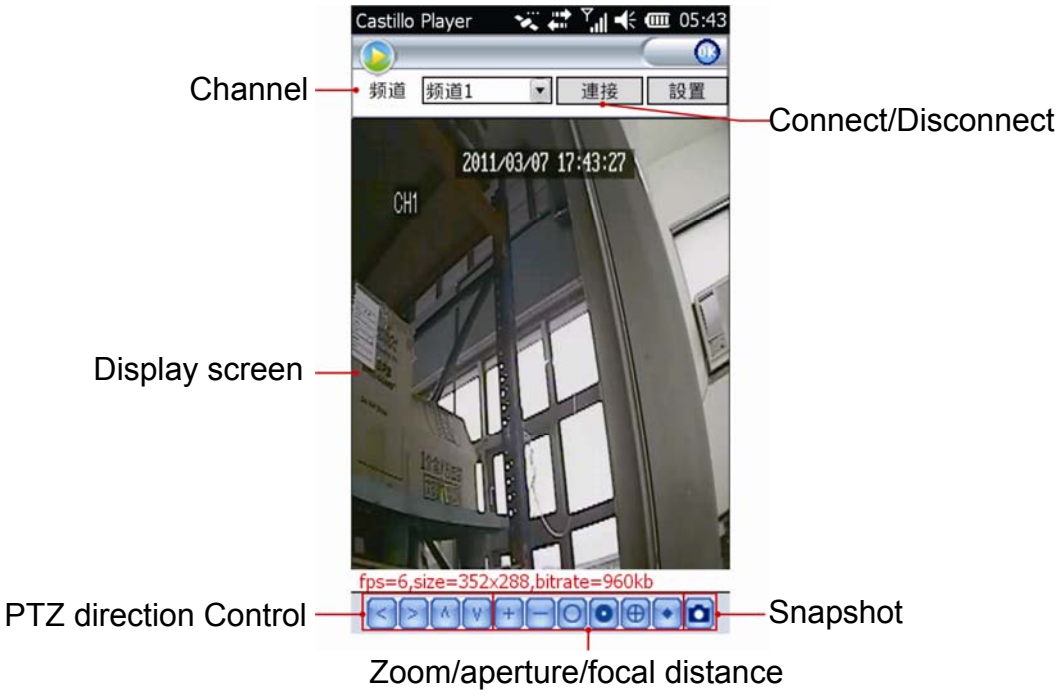
<PIC 14>

9. Press “Connect” button, it’ll connect to the DVR according to your setup, and you may see the DVR picture after the connection established <PIC 15~16>.

<PIC 15>

<PIC 16>

10. <PIC 17>Operate instruction below:

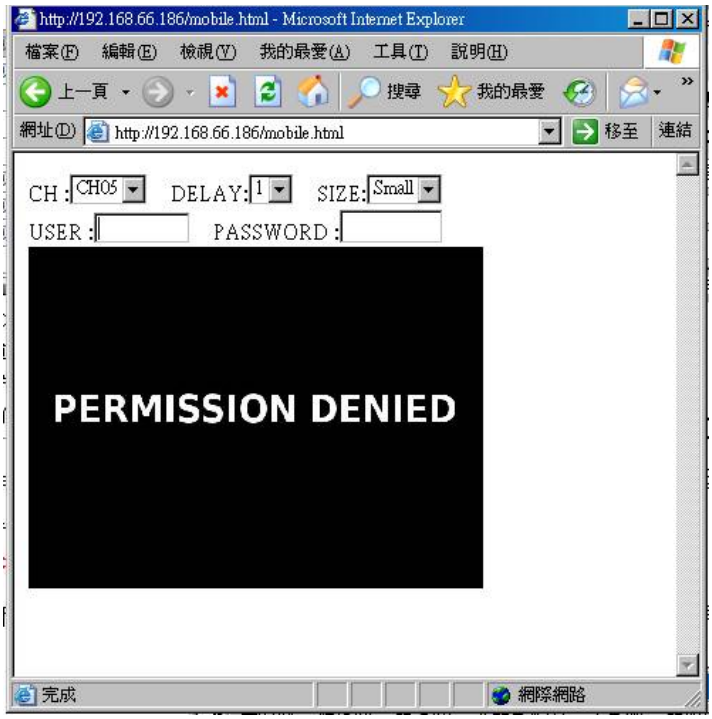


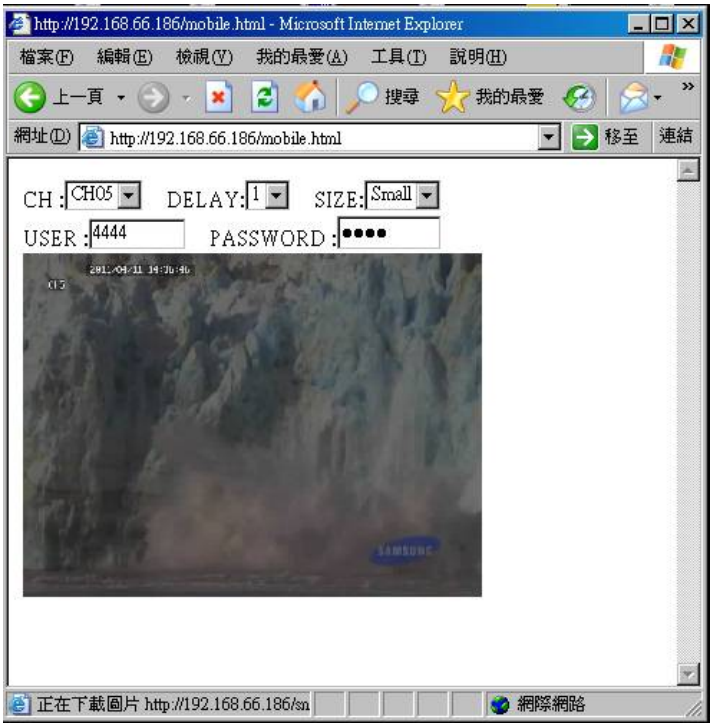
<PIC 17>

■ Blackberry Software Connect Procedure

1. Blackberry RTSP Connect procedure:
   Verify Authentication, website address input format as below
   rtsp://(website address)/**ch(channel number)?user=(user ID)&pwd=(user password)**
   e.g. rtsp://f16.cctvdvr.com.tw:554/**ch2?user=2222&pwd=2222**

2. Mobile Webpage:
   Please enter the ID & password again after you login, or you'll get black screen of permission denied as below:

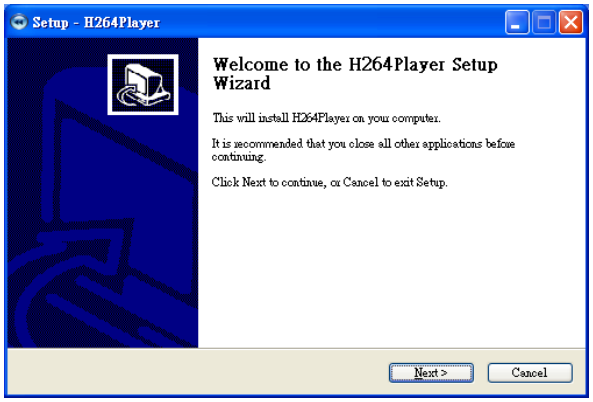




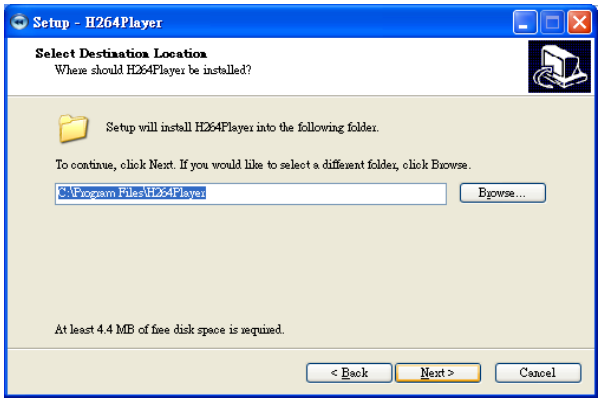
10. H264 Player Operation

- Preface
  H264 Player software allows to playback the backup saving file from the DVR.
- System Requirement
  Operating System: Windows 2000, XP, Vista, Windows 7.
- Program obtainment and installation
  While user start to backup the file from DVR, the system will automatically copy the H264Player.exe file and recorded data to the backup device for example, an USB flash memory stick.
  - Execute the installation file

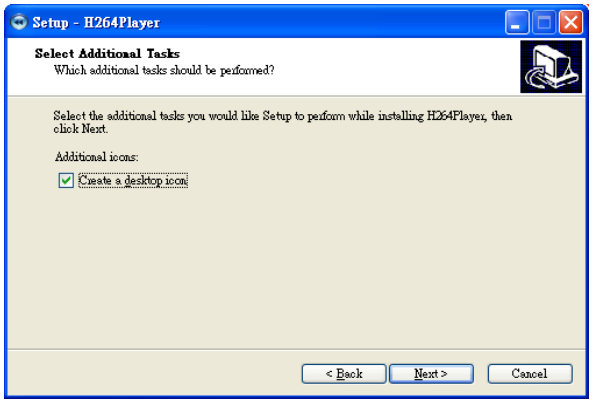
Step 1: Ask for the Installation


Setup - H264Player
Welcome to the H264Player Setup Wizard
This will install H264Player on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

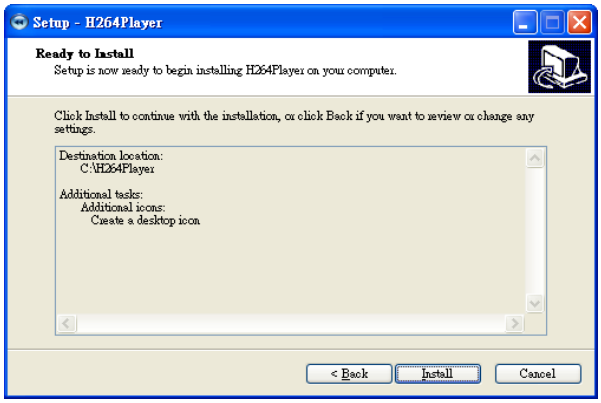
Step 2: Select the Install Location


Setup - H264Player
Select Destination Location
Where should H264Player be installed?
Setup will install H264Player into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\H264Player
Browse...
At least 4.4 MB of free disk space is required.
< Back
Next >
Cancel

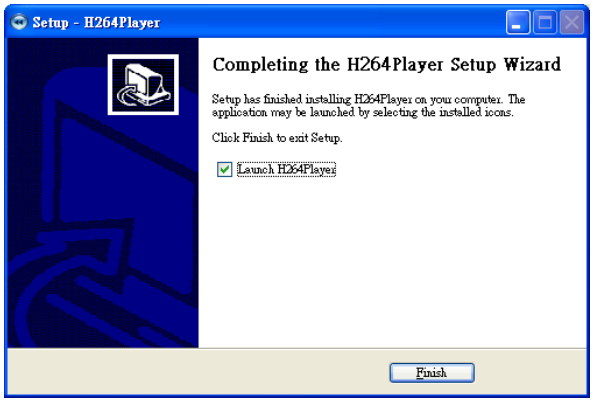
Step 3: Select Additional Tasks


Setup - H264Player
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing H264Player, then click Next.
Additional icons:
Create a desktop icon
< Back
Next >
Cancel

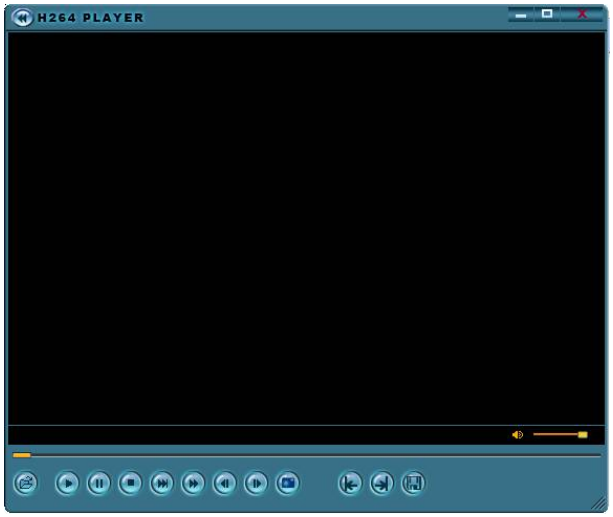
Step4: Install Confirmation

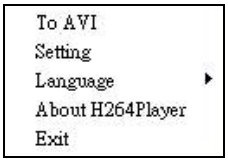

Setup - H264Player
Ready to Install
Setup is now ready to begin installing H264Player on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\H264Player
Additional tasks:
Additional icons:
Create a desktop icon
< Back
Install
Cancel

Step 5: Installation Complete


Setup - H264Player
Completing the H264Player Setup Wizard
Setup has finished installing H264Player on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Launch H264Player
Finish

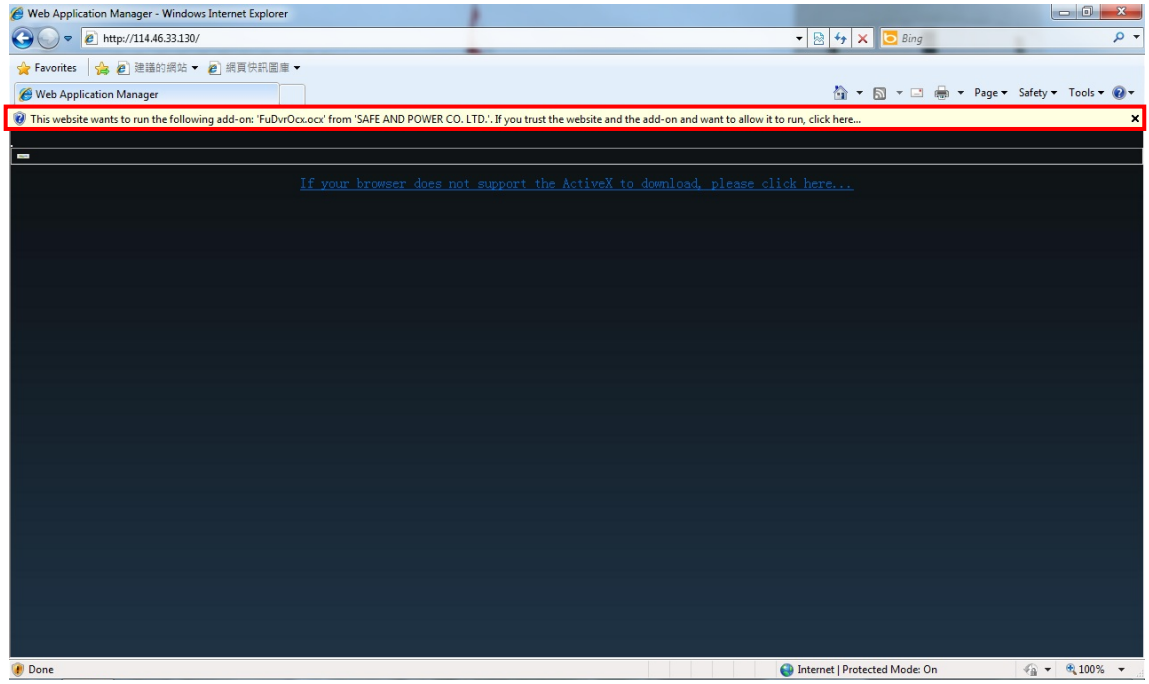
◆ User Interface



Open File	Click
Pause	Click
Stop	Click
Play 1x	Click
Fast Forward	Click
Slow Forward	Click
Capture the image (snap shot) to the host computer	Click
Volume Control	Drag
Rewind	Click
Step Forward	Click
Mark start time	Click
Mark end time	Click
Backup	Click
Pop-up Menu	Right click the mouse to open the pop-up menu including Setting, Language, About H264Player, Exit 

11. Web Operation

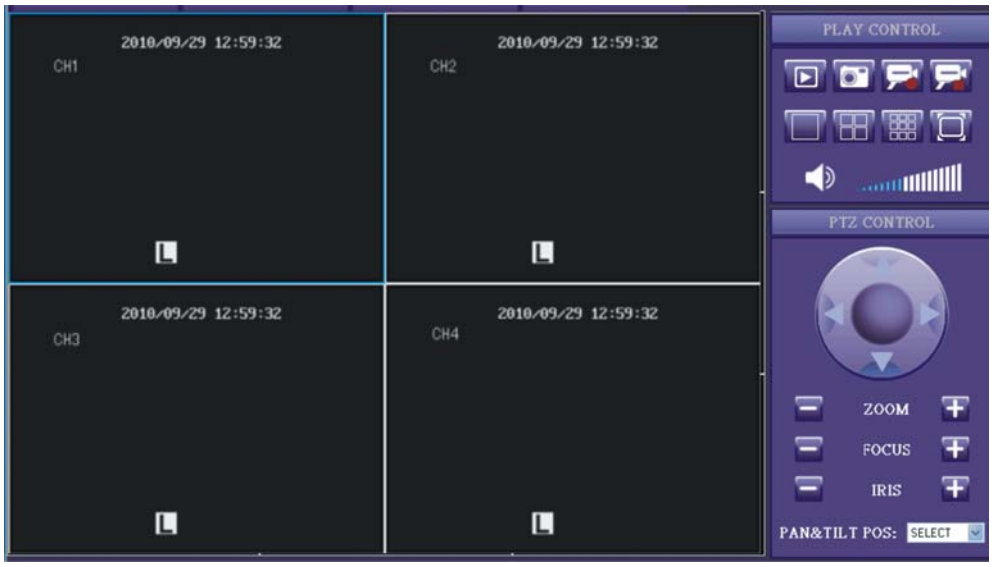
- Preface
  The Web Application Manager allows the user to remotely monitoring, playback, and backup through the DVR.
- System Requirement
  Operating System: Windows 2000, XP, Vista, Windows 7
  Web Browser: Internet Explorer
- Add-on Installation
  Please use the IE browser to login the IP address of DVR setting. If the user is the first time to login the page, the system will ask the user to download and install the add-on as you can see the page below. Please click the request to install the ActiveX add-on.


Web Application Manager - Windows Internet Explorer
http://114.46.33.130/
Bing
Favorites
Web Application Manager
Page
Safety
Tools
This website wants to run the following add-on: 'FuDvrOcx.ocx' from 'SAFE AND POWER CO. LTD.'. If you trust the website and the add-on and want to allow it to run, click here...
If your browser does not support the ActiveX to download, please click here...
Done
Internet | Protected Mode: On
100%

- User Interface
  - Login Page

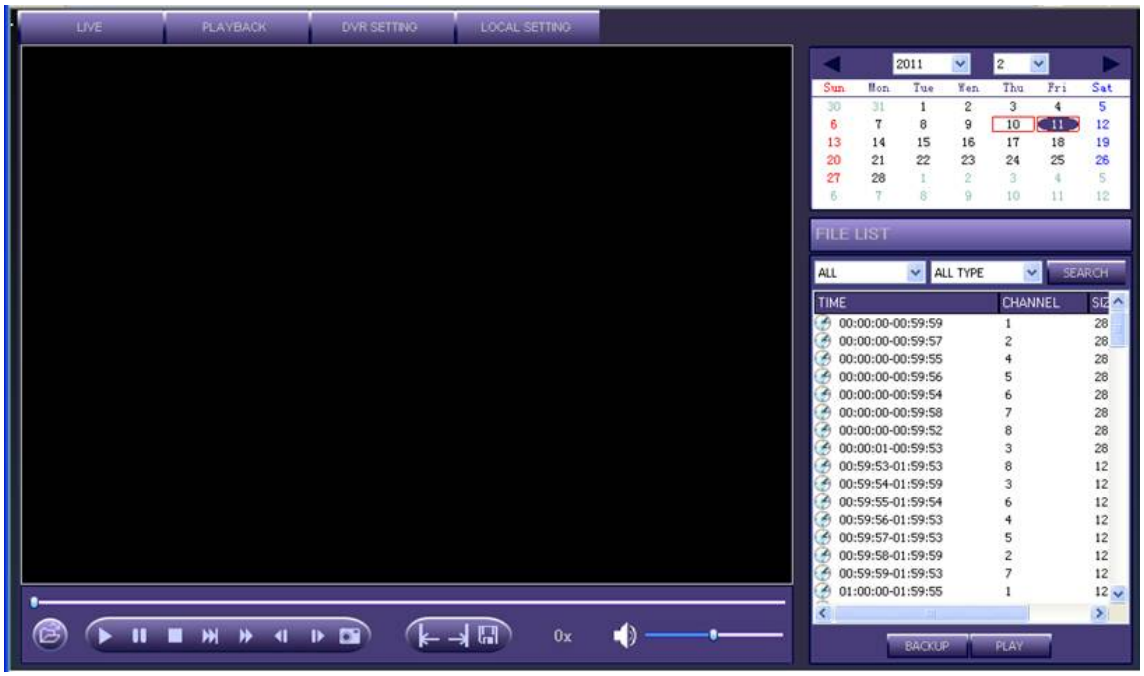
Please login user name and password from the setting of DVR end.

◆ Live mode



Start/Stop the Live Monitoring	Click
Record the Footage to Computer	Click Start recording or Stop recording (saving path: Setup/Information)
Snapshot the Image	Click to snap shot the image (saving path: Setup/Information)
Enable/Disable Audio	Click under the live viewing mode to enable the audio, and click to disable
Volume Control	Click
Switch Channel Display	Double click the channel to enter single channel display, double click again to return.
Single/4 Display	Click
Speed Dome Preset Point	
PTZ Control	Please refer “PTZ” for more information

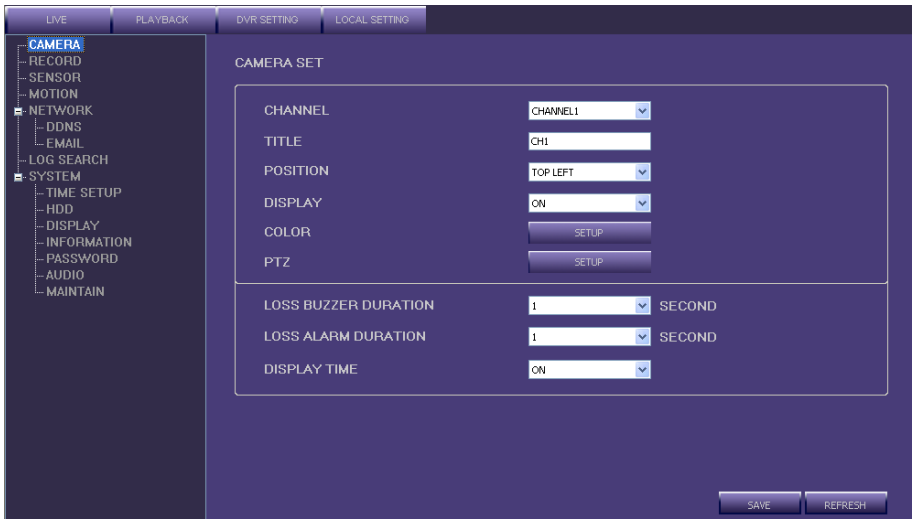
◆ Playback



Event Search	(1) Select Date (2)Click ALL or ALL TYPE (3)Click SEARCH
Playback	Click on pop up file list
Fast Forward	Click “Fast Forward” (Speed: 2X, 4X, 8X, 16X)
Rewind	Click “ Rewind” (Speed: 1/2, 1/ 4X, 1/ 8X, 1/ 16X)
Step Forward	Click “Previous”or “Step”
Snapshot	Click to capture.
Mark start time	Click
Mark end time	Click
Backup	Click
Backup	Click “Backup”, backup path: Setup→ System Setting→ Backup Location

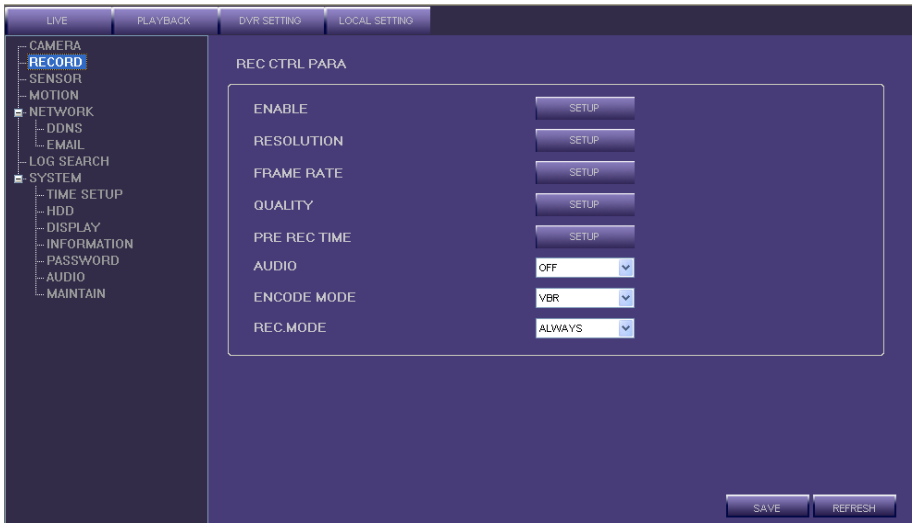
◆ DVR Setting

‣ Cameras



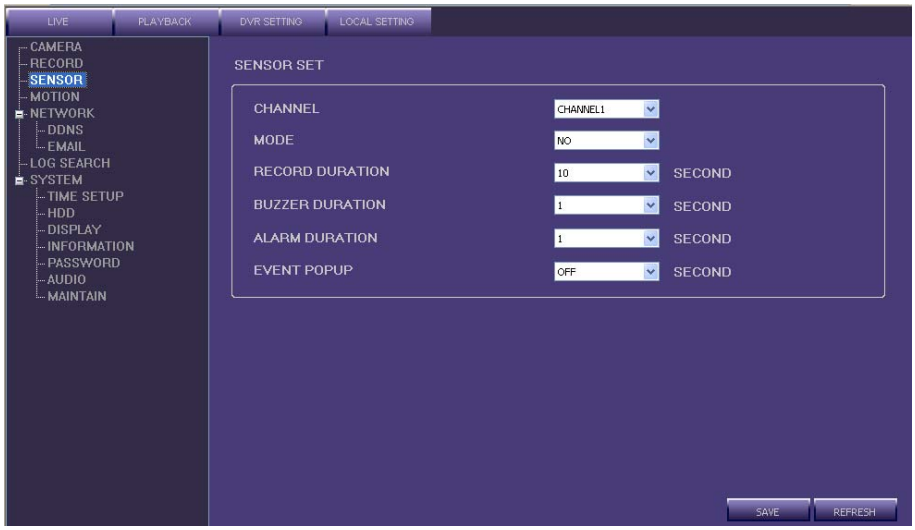
Please refer “Camera Setup” for more information

‣ Record



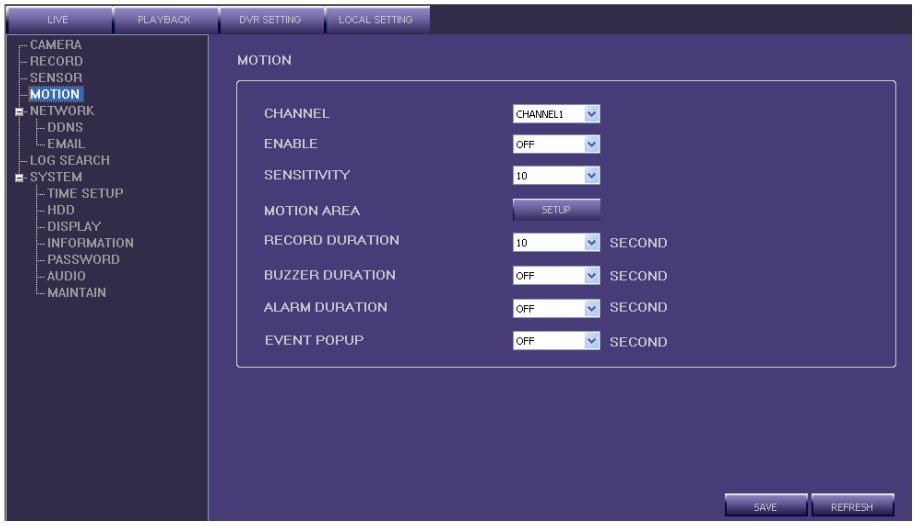
Please refer “Record Setup” for more information.

‣ Alarm



Please refer “Alarm Setup” for more information.

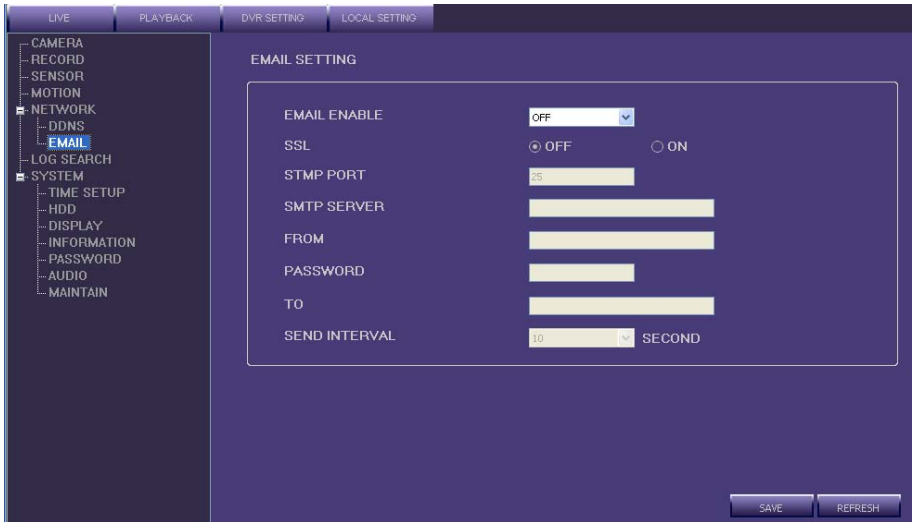
- MotionDetection



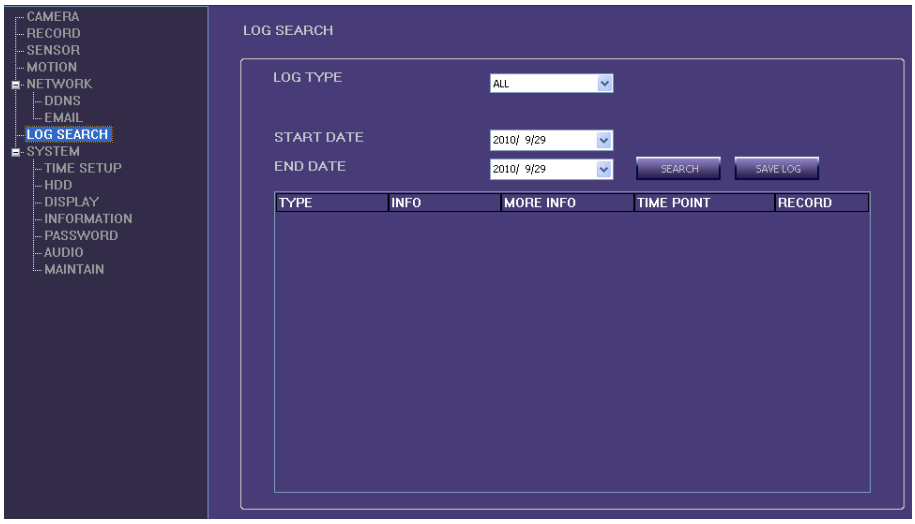
Please refer “Motion Detection” for more information.

- Network setting

E-MAIL

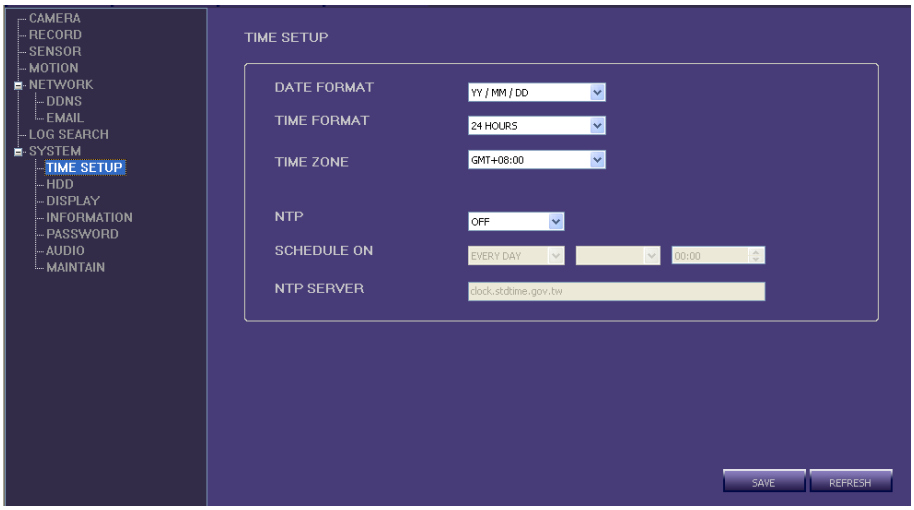


- Log search

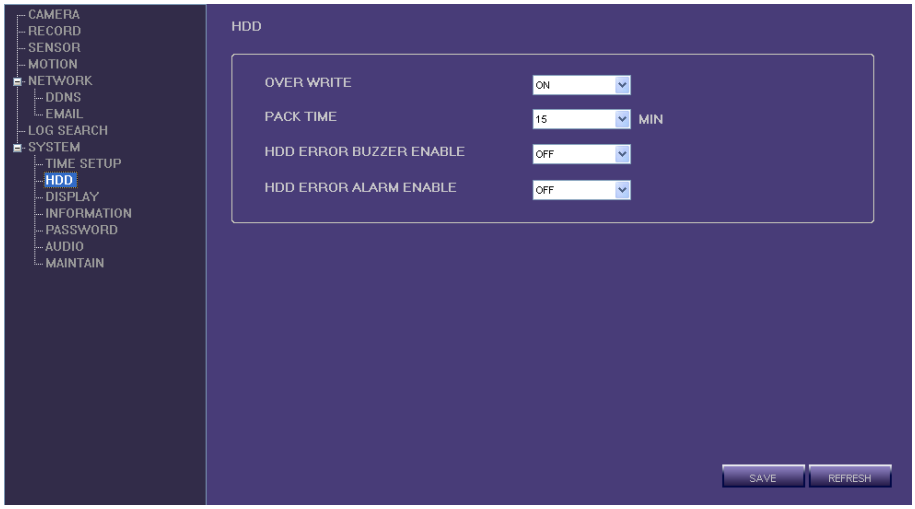


◆ System Setting

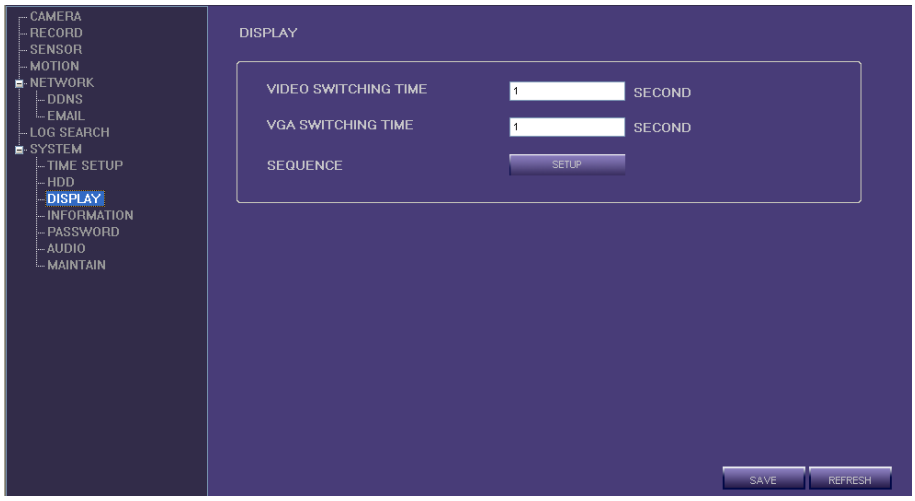
- Date/Time Setting



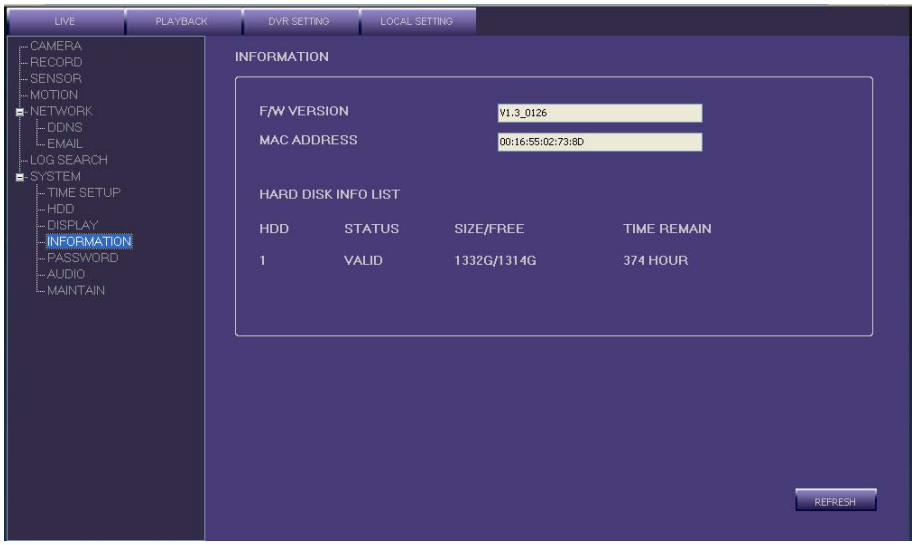
- HDD Management



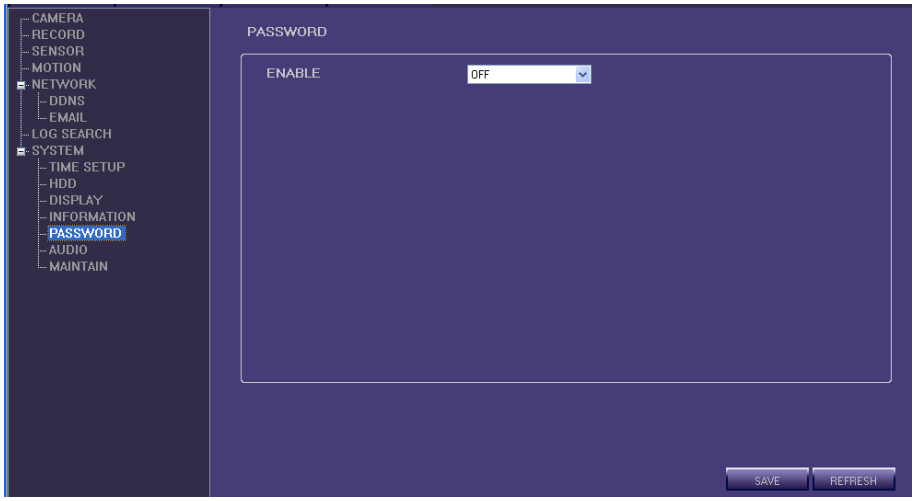
- Display



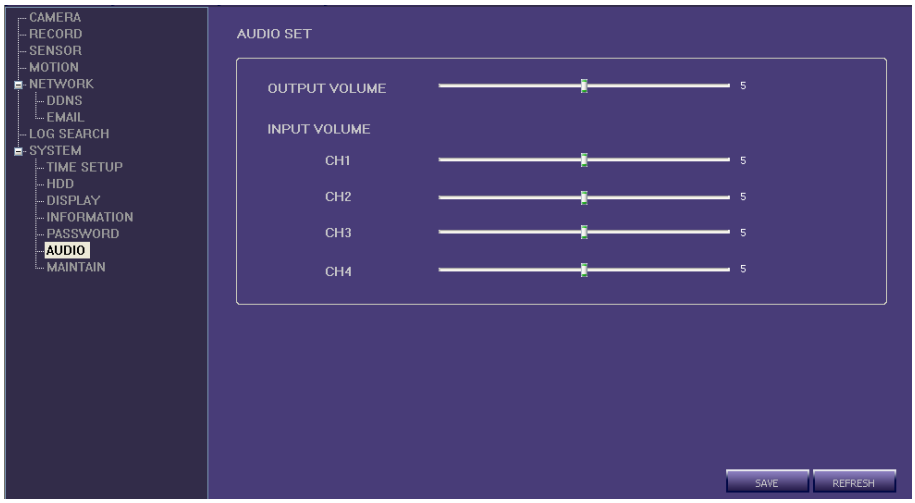
- System Information



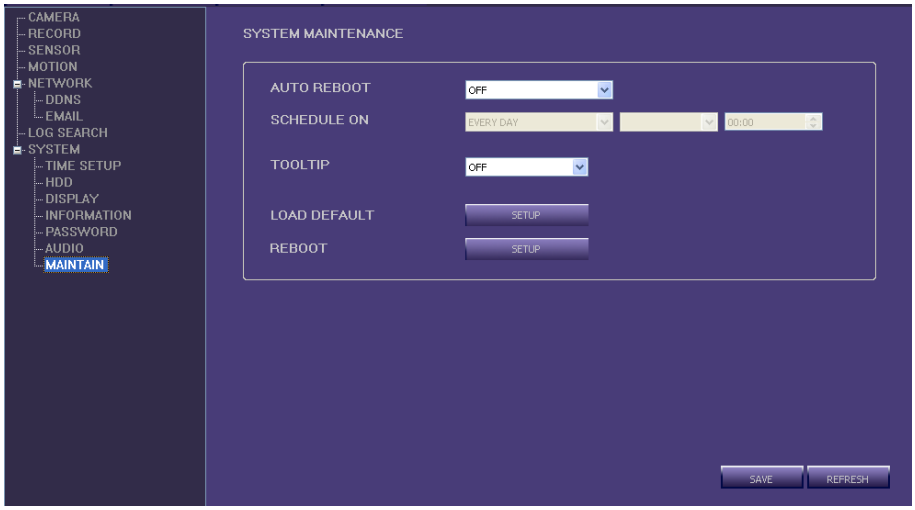
- Account/password



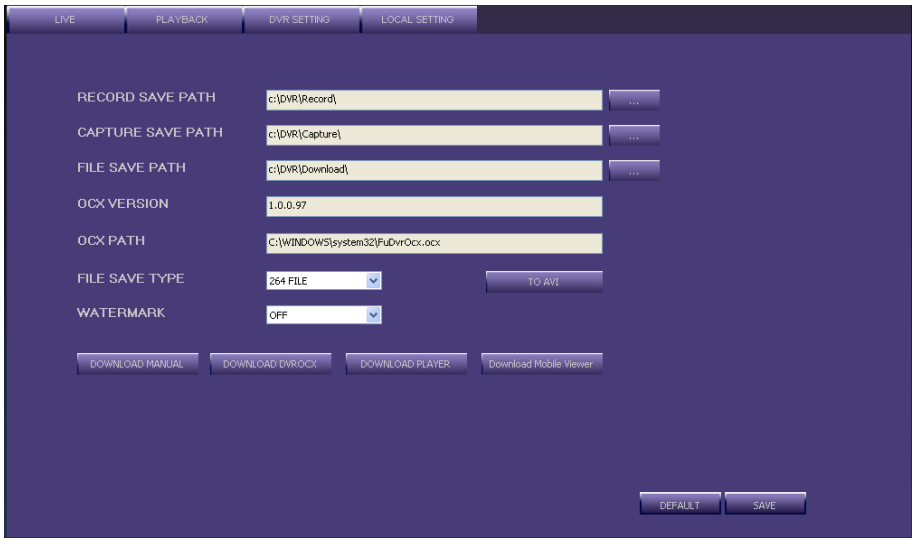
‣ Audio Setting



‣ System Maintenance



◆ Host setting



12. Default Setting

Item		Default Setting	Item		Default Setting
Record Setup	Channel	On	**HDD Setup**	Overwrite	Yes
	Resolution	Normal		Pack Time	60 Mins
	Frame Rate	Real-time	**Time Setup**	Date Format	YY/MM/DD
	Quality	Highest		Time Format	24 Hours
	Audio	Disable		Time Zone	GMT+08:00
	Schedule	Always		Daylight Saving	Off
Camera Setup	Channel 1	CH1	**XGA/Audio Setup**	XGA Resolution	800 X 600
	Channel 2	CH2		Output Volume	5
	Channel 3	CH3		Input Volume	5
	Channel 4	CH4	**Alarm Setup**	Mode	On
	Title Position	Top Left		HDD Loss	On
	Display	On		HDD NO SPACE	On
	Display Time	On		Video Loss	On
	Switching Time	1 sec.		Alarm Output	1 sec.
Camera Color Setup	Hue	25		Post REC	10 sec.
	Brightness	25		Buzzer	1 sec.
	Contrast	25	**E-MAIL Setup**	E-MAIL	Off
	Saturation	25	**System Maintenance**	Maintenance Schedule Setup	Off
Motion Detection	Channel Status	Off	**PTZ**	Type	Off
	Sensitivity	5		Protocol	Off
Network Setup	Mode	Static IP		Address	001
	Media Port	09000		Baud Rate	9600
	Web Port	00080		Tour Time	Off
	IP Address	192.168.000.100		Tilt Opposite	Off
	NetMask	255.255.255.0			
	Gateway	192.168.000.001			
	DNS	168.095.001.001			
DDNS Setup	DDNS	Off			

13. HDD Support List

Suggest to install the Hard Driver listed below to make sure the compatibility.

Brand	Model Number	Capacity
SEAGATE	ST3250310CS	250G
	ST3320410SV	320G
	ST3500418AS	500G
	ST3500312CS	500G
	ST3750528AS	750G
	ST31000424CS	1T
	ST31500541AS	1.5T
	ST32000542AS	2T
HITACHI	HCT721025SLA380	250G
	HCT721032SLA380	320G
	HCP725050GLA380	500G
	HCT721010SLA360	1T
	HDHCT721010LAS360	1T
WD	WD3200AVVS	320G
	WD3200AAKS	320G
	WD5000AVVS	500G
	WD5000AAKX	500G
	WD10EURS	1T
	WD10EVDS	1T
	WD10EVVS	1T
	WD15EARS	1.5T
	WD20EARS	2T
	WD2001FASS	2T

14. USB Flash Memory Stick Support List

The following recommended flash drives have passed all testing procedures and are safe to a: backup, b: Playback by PC, and c: update firmware.

Brand	Model Number	Capacity
Transcend	Jetflash V20	4G
	Jetflash V20	8G
	Jetflash V30	16G
	Jetflash V20	32G
Adata	PD1	1G
	PD1	4G
	PD1	8G
	C801	16G
	C801	32G
SONY	Microvault	8G
	Microvault	16G
SanDisk	Cruzer Micro	4G
	Cruzer Micro	8G
	Cruzer Micro	16G
Kingston	DTIG2	4G
	DTIG2	8G
	DTIG2	16G

15. Operation System For Mobile Phone Application

O/S	Version	Mobile Phone Software
Android	2.1、2.2、2.3	CastilloPlayer(Android_1.5~2.1).apk CastilloPlayer(Android_2.2~2.3).apk
iPhone	3.x、4.x	Castillo player
WinMobile	6.5.x	CastilloPlayer_5.0.3.CAB
Symbian	S60 v3 above	CastilloPlayer_5.1.713.sisx
BlackBerry	Support RTSP Protocol	None

16. 3G Data Rate

Brand	Model	Data Transfer Speed (bps)			Support	Verified
		WCDMA (3G) 2Mbps ~ 386kbps	HSDPA (WCDMA 3.5G)	HSUPA (WCDMA 3.75G)		
Huawei	E1550	-	3.6M	-	Yes	PASS
	E220	-	7.2M	-	Yes	PASS
ZTE	MF637	-	7.2M	5.76M	Yes	PASS